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Occupational Injuries and Illnesses in the United States by Industry, 1989

U.S. Department of Labor
Bureau of Labor Statistics
April 1991

Bulletin 2379

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Occupational Injuries and Illnesses in the United States by Industry, 1989

U.S. Department of Labor
Lynn Martin, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
April 1991

Bulletin 2379

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Preface

Data for this bulletin were collected in accordance with the provisions of the Occupational Safety and Health Act of 1970. The estimates represent the reported injury and illness experience of employers in private sector establishments. Report forms are mailed to employers in the year following the reference year of each survey.

This bulletin was prepared in the Bureau's Office of Safety, Health and Working Conditions, William M. Eisenberg, Assistant Commissioner. Ethel C. Jackson directed James D. Barnhardt, Betsy Jordan, and Melissa Hackey in its preparation in the Division of Safety and Health Statistics, Branch of the Annual Survey. Data were collected and tabulated in the Division of Safety and Health Systems in cooperation with regional offices of the Bureau of Labor Statistics and the State agencies which received Federal funds for participating in the Annual Survey of Occupational Injuries and Illnesses.

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Occupational Injuries and Illnesses, 1989

Overview

During 1989, the Nation's workers experienced approximately 6.6 million job-related injuries and illnesses. These occupational injuries and illnesses occurred at a rate of 8.6 per 100 full-time workers, unchanged from the 1988 rate. (See text table 1 and chart 1.)

Although the rate was the same as in 1988, the number of cases increased by 136,000, primarily in the trade and services industries. There was no change in the rate because employee hours worked increased by the same proportion as the number of cases reported.

Text table 1. Occupational injury and illness incidence rates,[1] private sector, 1972-89[2]

Year	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
1972	10.9	3.3	7.6	47.9
1973	11.0	3.4	7.5	53.3
1974	10.4	3.5	6.9	54.6
1975	9.1	3.3	5.8	56.1
1976	9.2	3.5	5.7	60.5
1977	9.3	3.8	5.5	61.6
1978[3]	9.4	4.1	5.3	63.5
1979[3]	9.5	4.3	5.2	67.7
1980	8.7	4.0	4.7	65.2
1981	8.3	3.8	4.5	61.7
1982	7.7	3.5	4.2	58.7
1983[3]	7.6	3.4	4.2	58.5
1984[3]	8.0	3.7	4.3	63.4
1985	7.9	3.6	4.3	64.9
1986	7.9	3.6	4.3	65.8
1987	8.3	3.8	4.4	69.9
1988	8.6	4.0	4.6	76.1
1989	8.6	4.0	4.6	78.7

[1] The incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers. See appendix B for method of calculation.

[2] Data for 1972-75 are based on the *Standard Industrial Classification Manual*, 1967 Edition; data for 1976-87 are based on the *Standard Industrial Classification Manual*, 1972 Edition; and data for 1988-89 are based on the *Standard Industrial Classification Manual*, 1987 Edition.

[3] In 1978, 1979, 1983, and 1984 small nonfarm employers in low-risk industries were not surveyed. To maintain comparability with the other data, a statistical method was developed to provide estimates for those employers.

NOTE: Data for 1975-88 exclude farms with fewer than 11 employees.

The industries with the 25 highest injury and illness incidence rates were in manufacturing, as shown in text table 2. These high-rate industries were determined by comparison of the total case rates for injuries and illnesses combined at the most detailed industry level at which rates are calculated and published.

The data presented in this bulletin are based on the industry classifications provided in the 1987 edition of the *Standard Industrial Classification (SIC) Manual*, prepared by the U.S. Office of Management and Budget. The previous bulletin in this series was based on the 1972 edition of the SIC Manual and thus data by industry presented in this bulletin for 1988 may differ somewhat from data published previously.

The SIC was developed for use in the classification of establishments by the type of activity in which they are engaged and for purposes of facilitating the collection, tabulation, presentation, and analysis of data relating to establishments. The occupational injury and illness data for manufacturing are generated at the division, 2-, 3-, and detailed 4-digit industry levels; the data for agriculture, forestry, and fishing are generated at the division and 2-digit industry levels; and data for mining; construction; transportation and public utilities; trade; finance, insurance, and real estate; and services are generated at the division, 2-, and 3-digit industry levels.

The following sections deal primarily with the 1989 occupational injury experience of the American worker, including the number of cases, incidence rates, and lost worktime injuries (tables 2-6). To a more limited extent, information is also presented for occupational illnesses and fatalities (tables 7-11). Also, in response to requests from the public, information is included in the text on high-rate industries for several categories of cases.

Injuries

An occupational injury is one which results from a work-related accident or from exposure to a sudden event in the work environment. Injuries are reported if they result in death, lost worktime, medical treatment other than first aid, loss of consciousness, restriction of work or motion, or transfer to another job.

Text table 2. Industries with the highest total case incidence rates[1] for injuries and illnesses combined, private sector, 1989

Industry[2]	SIC code[3]	Incidence rate
Ship building and repairing	3731	45.8
Meat packing plants	2011	35.1
Structural wood members, n.e.c.	2439	30.4
Prefabricated wood buildings	2452	27.9
Gray and ductile iron foundries	3321	27.7
Automotive stampings	3465	27.6
Truck trailers	3715	27.6
Motor vehicles and car bodies	3711	26.6
Canned and cured fish and seafoods	2091	25.9
Household cooking equipment	3631	25.9
Special product sawmills, n.e.c.	2429	25.6
Leather tanning and finishing	3111	25.0
Steel foundries, n.e.c.	3325	24.8
Truck and bus bodies	3713	24.8
Fabricated structural metal	3441	24.4
Fresh or frozen prepared fish	2092	24.3
Metal barrels, drums, and pails	3412	24.0
Fabricated plate work (boiler shops)	3443	24.0
Mobile homes	2451	23.9
Primary aluminum	3334	23.9
Boat building and repairing	3732	23.9
Vitreous plumbing fixtures	3261	23.7
Secondary nonferrous metals	3341	23.7
Iron and steel forgings	3462	23.5
Travel trailers and campers	3792	23.5
Malt	2083	23.3
Animal and marine fats and oils	2077	22.9
Poultry slaughtering and processing	2015	22.8
Cold finishing of steel shapes	3316	22.8
Sausages and other prepared meats	2013	22.6
Steel pipe and tubes	3317	22.5
Raw cane sugar	2061	22.1
Flat glass	3211	21.9
Aluminum foundries	3365	21.9
Nonferrous foundries	3463	21.8

[1] The incidence rates represent the number of injuries and illnesses per 100 full-time workers. See appendix B for method of calculation.

[2] High-rate industries were those having the 25 highest total case incidence rates for injuries and illnesses combined at the most detailed or lowest SIC level at which rates are calculated and published. Based on this comparison, the highest rates were all reported in manufacturing industries. Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing and metal and nonmetal mining were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

n.e.c. = not elsewhere classified.

Number of cases

Nearly 6.3 million occupational injuries were reported in the private sector in 1989. The manufacturing industry division accounted for slightly over 33 percent of the total (nearly 2.3 million cases). Other industry divisions with substantial proportions of injuries included wholesale and retail trade (nearly 1.6 million cases); services (slightly over 1 million cases); and construction (almost 640,000 cases).

Even though 1 out of every 3 injuries in 1989 occurred in manufacturing, the 9 detailed industries reporting the largest numbers of workplace injuries, at least 100,000 cases, included 8 outside of the manufacturing division, as indicated in text table 3.

Incidence rates

During 1989, work-related injuries occurred at a rate of 8.2 per 100 full-time workers. Among industry divisions, the rates ranged from 1.9 in finance, insurance, and real estate, to 14.2 in construction.

Goods-producing industries (agriculture, forestry, and fishing; mining; construction; and manufacturing) combined had a 1989 injury incidence rate of 12.2. The lowest rate in goods-producing major industry groups (the 2-digit SIC level) was 4.9 in instruments and related products manufacturing (SIC 38), and the highest rate was 17.9 in lumber and wood products manufacturing (SIC 24).

The service-producing industries (transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services), employing nearly 71 percent of the private sector work force, had a combined injury rate of 6.3 in 1989. The incidence rates of the major industry groups varied from 0.5 in legal services (SIC 81) to 13.9 in air transportation (SIC 45). Table 3 presents reported occupational injury incidence rates by industry for 1988 and 1989.

Text table 3. Occupational injuries: Number of cases and incidence rates[1] for industries reporting 100,000 or more injury cases, 1989

Industry	SIC code[2]	Total cases (in thousands)	Incidence rate
Eating and drinking places	581	351.9	8.4
Grocery stores	541	251.8	12.5
Hospitals	806	222.6	8.0
Trucking and courier services, except air	421	191.0	13.3
Motor vehicle and equipment manufacturing	371	161.4	18.9
Nursing and personal care facilities	805	160.0	15.2
Department stores	531	154.1	10.7
Hotels and motels	701	128.1	10.8
Wholesale groceries and related products	514	104.2	13.1

[1] The incidence rates represent the number of injuries per 100 full-time workers. See appendix B for method of calculation.

[2] *Standard Industrial Classification Manual*, 1987 Edition.

Chart 1. Occupational injury and illness incidence rates for total cases, lost workday cases, and nonfatal cases without lost workdays, private sector, 1972-89

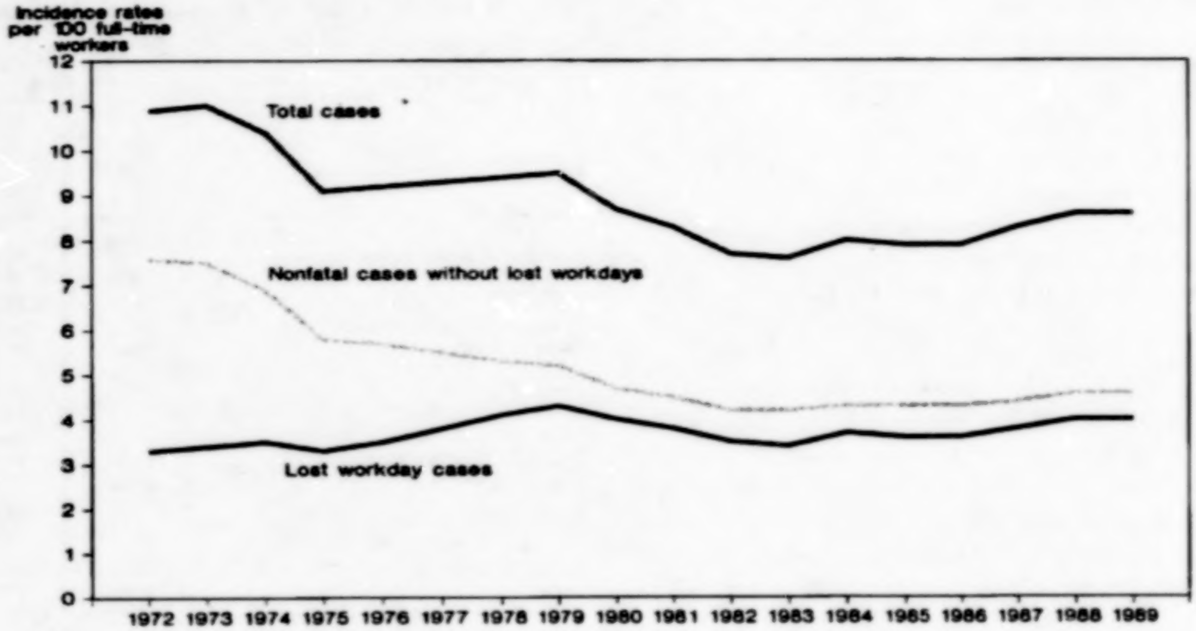
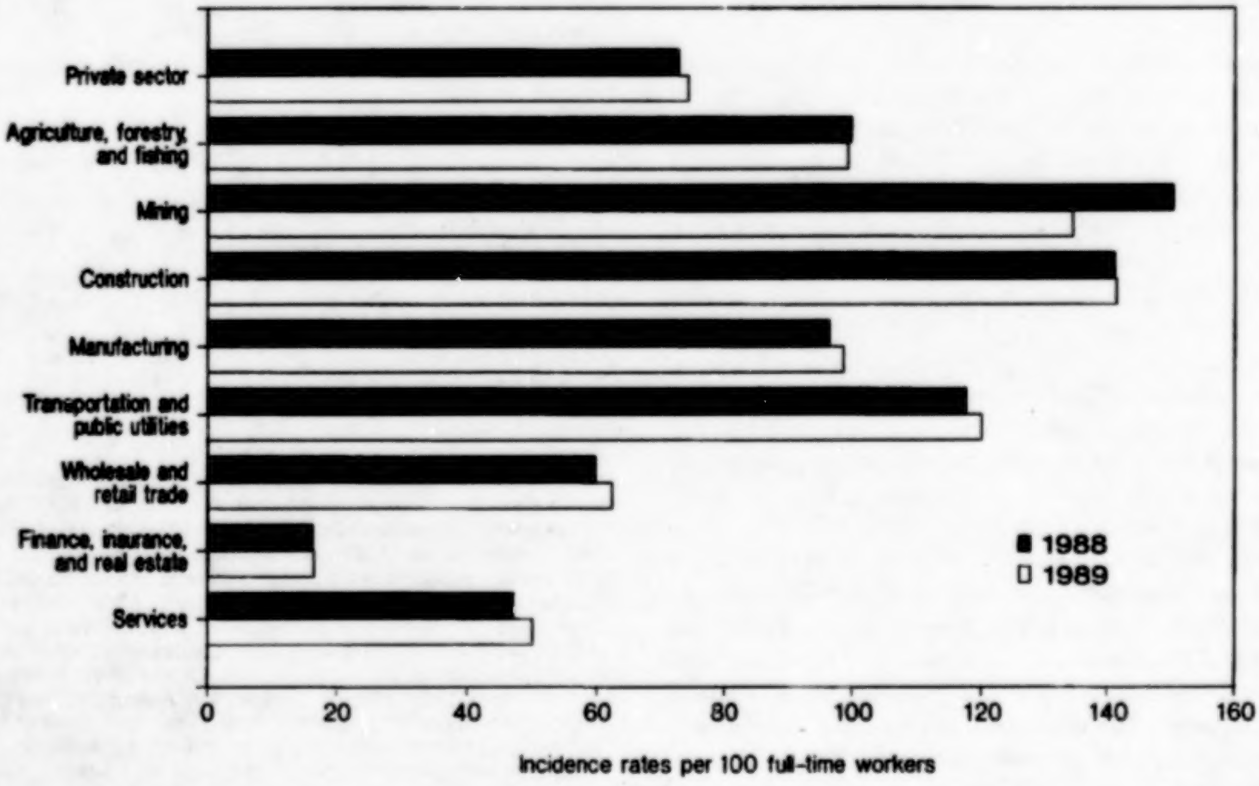


Chart 2. Occupational injury incidence rates for lost workdays by industry division, private sector, 1988-89



As in previous years, private sector injury rates varied widely by establishment size. Rates for establishments with fewer than 50 employees or with more than 1,000 employees were lower than the rates for the mid-size establishments (table 4). This pattern did not hold, however, for each industry division.

Lost worktime injuries

Two measures are currently used as estimates of worktime lost per 100 full-time workers: (1) lost workday cases, which primarily measures the occurrence of more serious incidents; and (2) lost workdays, which indicates the severity of cases. Lost workdays include both days away from work and days of restricted work activity, e.g., assignment of the employee to lighter work.

Number of cases and incidence rates. Of the nearly 6.3 million occupational injuries reported in the private sector, nearly 50 percent (almost 3 million cases) were serious enough for the injured worker to lose worktime or to experience restricted work activity, or both. These cases resulted in approximately 57 million lost workdays in 1989.

In 1989, lost workday *injuries* occurred at a rate of 3.9 cases per 100 full-time workers. The corresponding *lost workdays* rate during the year was 74.2. Among industry divisions, lost workday injury rates ranged from 0.9 in finance, insurance, and real estate to 6.7 in construction. The lost workday rates varied from 16.5 in finance, insurance, and real estate to 141.6 in construction (chart 2). Table 5 presents 1988 and 1989 incidence rates for lost workday cases and lost workdays by industry.

High-rate industries. During 1989, the industries with the 25 highest lost workday case incidence rates for injuries in the private sector were mainly in manufacturing. One construction industry (roofing, siding, and sheet metal work) and one transportation industry (sanitary services) were also among the high lost workday case industries (text table 4).

Illnesses

An occupational illness is any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to factors associated with employment. Included are acute and chronic illnesses or diseases which may be caused by inhalation, absorption, ingestion, or direct contact.

The reporting of illnesses continues to present measurement problems because employers and physicians are often unable to recognize some illnesses as being work related, and these may not be reported. As a result, the survey underestimates rates of occurrence of illnesses in the private sector. The majority of the reported illnesses are those which relate to workplace activity (e.g., contact dermatitis or carpal tunnel syndrome) and therefore, are easy to identify. In contrast, some conditions, e.g., long-term latent illnesses caused by exposure to carcinogens, often are difficult to relate to the workplace and are not adequately recognized and reported. These long-term latent illnesses are believed to be understated in the survey's illness measures.

Text table 4. Industries with the highest lost workday case incidence rates[1] for injuries only, private sector, 1989

Industry[2]	SIC code[3]	Incidence rate
Ship building and repairing	3731	16.8
Special product sawmills, n.e.c.	2429	16.5
Vitreous plumbing fixtures	3261	15.9
Structural wood members, n.e.c.	2439	14.9
Meat packing plants	2011	13.1
Prefabricated wood buildings	2452	12.9
Leather tanning and finishing	3111	12.6
Truck trailers	3715	12.2
Prepared flour mixes and doughs	2045	11.9
Canned and cured fish and seafoods	2091	11.9
Fabricated structural metal	3441	11.9
Animal and marine fats and oils	2077	11.7
Secondary nonferrous metals	3341	11.7
Malt	2083	11.6
Bottled and canned soft drinks	2086	11.6
Logging	2411	11.6
Copper foundries	3366	11.4
Steel foundries, n.e.c.	3325	11.3
Steel springs, except wire	3493	11.2
Cold finishing of steel shapes	3316	11.0
Fabricated plate work (boiler shops)	3443	10.8
Gray and ductile iron foundries	3321	10.7
Concrete products, n.e.c.	3272	10.6
Metal barrels, drums, and pails	3412	10.4
Iron and steel forgings	3462	10.4
Sausages and other prepared meats	2013	10.4
Steel pipe and tubes	3317	10.4
Sanitary services	495	10.4
Raw cane sugar	2061	10.3
Fresh or frozen prepared fish	2092	10.3
Mattresses and bedsprings	2515	10.3
Aluminum foundries	3365	10.2
Roofing, siding, and sheet metal work	176	9.9
Mobile homes	2451	9.8
Ice cream and frozen desserts	2024	9.7
Rice milling	2044	9.7
Wood pallets and skids	2448	9.7
Steel wire and related products	3315	9.6
Boat building and repairing	3732	9.6

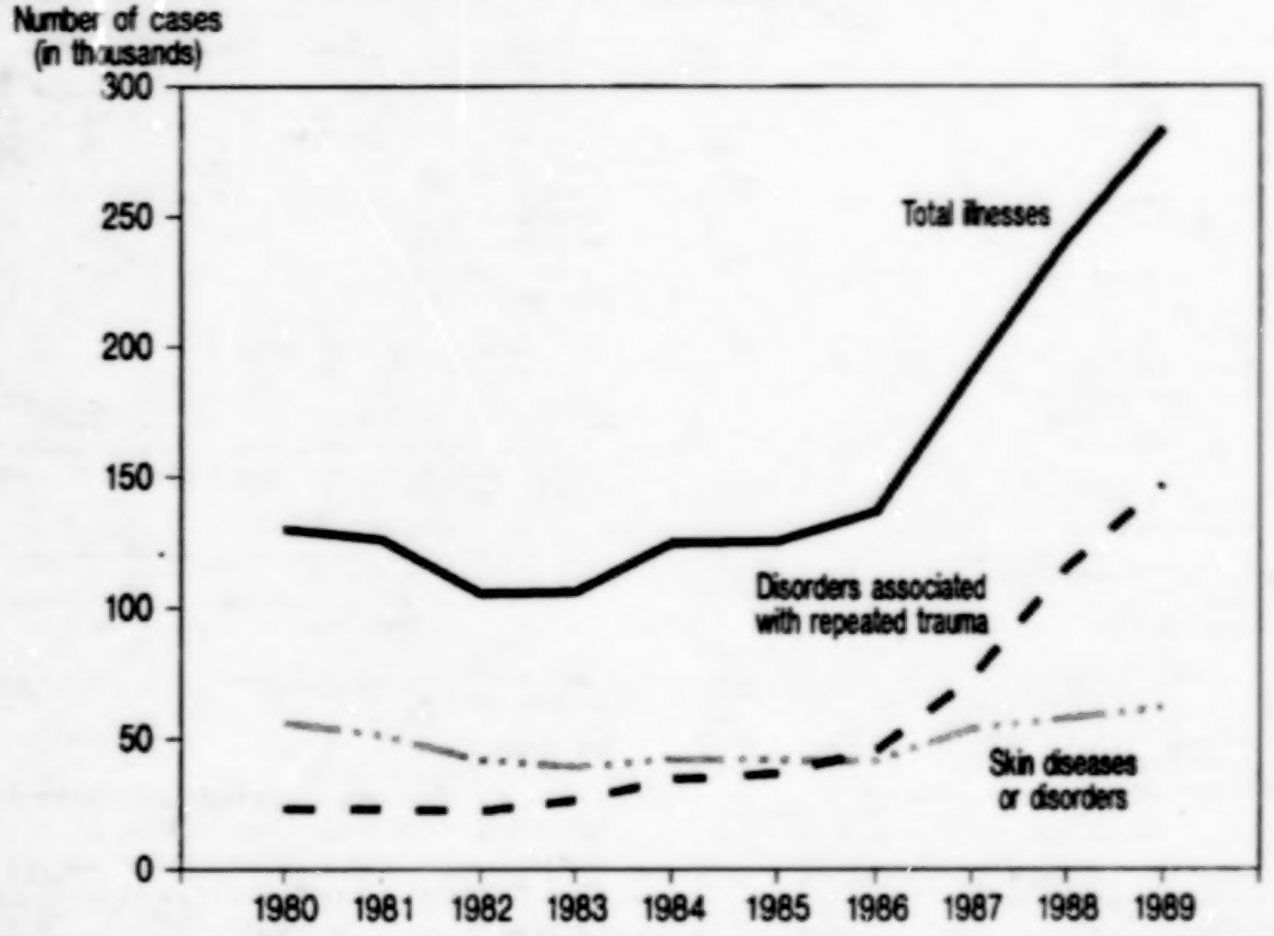
[1] The incidence rates represent the number of injuries per 100 full-time workers. See Appendix B for method of calculation.

[2] High-rate industries were those having the 25 highest lost workday case incidence rates for injuries only at the most detailed or lowest SIC level at which rates are calculated and published. Based on this comparison, the highest rates were all reported in manufacturing industries, except SIC 495 (transportation and public utilities industry) and SIC 176 (construction industry). Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing and metal and nonmetal mining were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

n.e.c. = not elsewhere classified.

Chart 3. Number of occupational illnesses, private sector, 1980-89



Number and distribution

In 1989, approximately 284,000 occupational illness cases were reported in private industry. Table 8 presents the number reported by industry division and category of illness. Appendix B lists the categories used to classify occupational illnesses, along with examples of each category.

Manufacturing accounted for slightly more than 70 percent or nearly 204,500 of the total illness cases reported in 1989, and for nearly all of the increase in illnesses between 1988 and 1989. The next leading contributor was the services industry with almost 12 percent.

Disorders associated with repeated trauma (e.g., conditions due to repeated motion, pressure, or vibration, such as carpal tunnel syndrome) made up approximately 52 percent (nearly 146,900 cases) of all illness cases in 1989. Repeated traumas constituted nearly 74 percent of the increase of 43,000 cases between 1988 and 1989 (chart 3).

Text table 5. Percent distribution of reported occupational illnesses by category of illness, private sector, 1980-89

Category	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total illness cases	100	100	100	100	100	100	100	100	100	100
Skin diseases or disorders	43	41	40	37	34	33	30	28	24	22
Dust diseases of the lungs	2	2	2	2	1	1	2	2	1	1
Respiratory conditions due to toxic agents	9	9	8	7	9	9	9	8	7	7
Poisoning	4	4	3	3	4	3	3	3	2	2
Disorders due to physical agents	10	9	8	8	7	7	7	7	7	6
Disorders associated with repeated trauma	18	18	21	25	28	29	33	38	48	52
All other occupational illnesses	15	17	18	17	17	16	15	14	11	10

NOTE: Because of rounding, components may not sum to totals.

Text table 6. Industries with the highest illness rates[1] of disorders associated with repeated trauma, private sector, 1989

Industry	SIC code[2]	Incidence rate
Meat packing plants	2011	799.1
Poultry slaughtering and processing	2015	527.7
Motor vehicles and car bodies	3711	453.2
Household laundry equipment	3633	348.9
Household refrigerators and freezers	3632	273.9
Men's and boys' work clothing	2326	258.5
Sausages and other prepared meats	2013	252.4
Frozen specialties, n.e.c.	2038	248.5
Men's footwear, except athletic	3143	244.4
Ship building and repairing	3731	241.8
Automotive and apparel trimmings	2396	241.8
Men's and boys' trousers and slacks	2325	227.3
Frozen bakery products, except bread	2053	218.8
Nonferrous wire drawing and insulating	3357	217.8
Hardwood dimension and flooring mills	2426	213.9
Pens and mechanical pencils	3951	206.4
Knit underwear mills	2254	200.4
Automotive stampings	3465	200.2
Metal office furniture	2522	194.8
Motor vehicle parts and accessories	3714	192.0
Rubber and plastics footwear	3021	189.4
Household cooking equipment	3631	187.9
Men's and boys' underwear and nightwear	2322	187.6
Hats, caps, and millinery	2353	187.3
Motorcycles, bicycles, and parts	3751	180.9
Household vacuum cleaners	3635	177.1

[1] The incidence rates represent the number of disorders associated with repeated trauma per 10,000 full-time workers and were calculated as: (N/EH) X 20,000,000 where,

N = number of disorders associated with repeated trauma,
EH = total hours worked by all employees during the calendar year,
20,000,000 = base for 10,000 full-time workers (working 40 hours per week, 50 weeks per year).

[2] High-rate industries were those having the 25 highest incidence rates at the most detailed or lowest SIC code level for which rates are calculated and published. Based on this comparison, the highest rates were all reported in manufacturing industries. Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing and metal and nonmetal mining were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

n.e.c. = not elsewhere classified.

Over the past several years, disorders associated with repeated trauma have significantly increased in number and as a percent of total illnesses reported. Text table 5 presents the percent distribution of reported occupational illnesses by category of illness for 1980-89.

Text table 7. Number and rate[1] of occupational fatalities for employers with 11 employees or more by industry division, 1988-89

Industry division	1988		1989	
	Fatalities	Incidence rate	Fatalities	Incidence rate
Private sector	3,270	5.0	3,600	5.4
Agriculture	110	13.8	110	13.9
Mining	220	33.6	110	17.3
Construction	850	24.5	780	22.4
Manufacturing	660	3.6	690	3.6
Transportation and public utilities	650	13.5	590	12.2
Wholesale and retail trade	540	3.4	720	4.3
Finance, insurance, and real estate	-	-	-	-
Services	-	-	-	-

[1] The incidence rates represent the number of fatalities per 100,000 full-time workers and were calculated as: (N/EH) X 200,000,000 where:

N = number of fatalities,
EH = total hours worked by all employees during the calendar year,
200,000,000 = base for 100,000 full-time workers (working 40 hours per week, 50 weeks per year).

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines.

Incidence rates

Occupational illnesses in the private sector occurred at a rate of 37.1 per 10,000 full-time workers during 1989 (table 7). Incidence rates by industry division ranged from 6.1 per 10,000 full-time workers in finance, insurance, and real estate to 108.3 in manufacturing.

High-rate industries for disorders associated with repeated trauma

During 1989, the industries with the 25 highest reported illness incidence rates of disorders associated with repeated trauma were in manufacturing (text table 6). These high-rate industries were determined by comparison at the most detailed industry level at which rates are calculated and published.

Fatalities

Scope and classification by cause

Data for fatalities represent establishments in the private sector with 11 employees or more. This differs from the scope of the nonfatal occupational injury and illness data with the exception of the agriculture, forestry, and fishing industry division. Also, the Mine Safety and Health Administration of the U.S. Department of Labor and the Federal Railroad Administration of the U.S. Department of Transportation, which supplied data on fatalities in coal, metal, and nonmetal mining and railroads, did not provide data on the objects or events which resulted in work-related deaths as do annual survey respondents.

The fatalities are classified into broad categories by cause. Tables 10 and 11 present estimates of the percentage of fatalities by cause which represent the average of 1988 and 1989. Percentages were calculated for 2 years combined because large sampling errors at the industry level preclude precise comparisons based on year-to-year changes.

Fatalities are difficult to measure in an establishment sample survey, and therefore the Bureau believes that the count of fatalities presented in this publication (text table 7 and table 9) is significantly understated. The Bureau has developed a plan to conduct a census of fatal occupational injuries. This new program, which will be implemented in stages beginning in 1991, will collect and verify information on all fatal work-related injuries in administrative records such as death certificates, workers' compensation claims, and other reports to Federal and State agencies.

Number of fatalities and incidence rates

About 3,600 work-related fatalities were reported in private sector establishments with 11 employees or more for 1989 (text table 7). The fatality rate was 5.4 per 100,000 full-time workers.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Private sector [7]		91,111.0	8.6	8.6	4.0	4.0	4.6	4.6	76.1	78.7
Agriculture, forestry, and fishing [7]		1,140.0	10.9	10.9	5.6	5.7	5.2	5.2	101.8	100.9
Agricultural production [7]	01-02	n.a.	12.2	12.2	6.2	6.2	6.0	6.0	110.6	101.9
Agricultural services	07	n.a.	9.7	9.7	5.1	5.3	4.6	4.5	91.8	99.8
Forestry	08	n.a.	12.4	11.4	6.5	5.6	5.8	5.7	138.3	132.4
Mining [7]		700.0	8.8	8.5	5.1	4.8	3.6	3.7	152.1	137.2
Metal mining [7]	10	58.5	8.7	8.5	4.9	4.7	3.7	3.8	150.5	133.0
Coal mining [7]	12	145.9	11.9	11.6	8.5	8.3	3.4	3.2	241.4	254.8
Oil and gas extraction	13	385.7	8.3	7.8	4.3	3.8	3.8	3.9	141.6	111.7
Crude petroleum and natural gas	131	193.3	2.9	3.3	1.3	1.6	1.6	1.8	36.0	41.6
Natural gas liquids	132	4.6	3.5	4.1	1.4	1.1	2.1	3.0	50.3	28.8
Oil and gas field services	138	187.9	13.2	12.1	7.1	6.0	5.9	6.0	239.1	184.7
Nonmetallic minerals, except fuels [7]	14	111.5	7.2	7.9	4.1	4.4	3.1	3.5	90.5	90.2
Construction		5,200.0	14.6	14.3	6.8	6.8	7.7	7.5	142.0	143.3
General building contractors	15	1,337.6	14.0	13.9	6.4	6.5	7.6	7.4	132.2	137.3
Residential building construction	152	688.4	11.3	11.4	5.8	6.1	5.5	5.3	116.7	131.7
Operative builders	153	42.1	8.8	8.3	3.8	3.5	5.0	4.7	53.6	64.0
Nonresidential building construction	154	607.1	17.6	16.9	7.4	7.2	10.2	9.7	156.6	148.1
Heavy construction, except building	16	778.5	15.2	13.8	7.0	6.5	8.1	7.3	153.1	147.1
Highway and street construction	161	234.2	15.3	14.1	6.8	6.5	8.4	7.6	174.1	139.0
Heavy construction, except highway	162	544.3	15.1	13.7	7.1	6.5	8.0	7.1	158.3	150.6
Special trade contractors	17	3,094.2	14.7	14.6	7.0	6.9	7.7	7.7	140.9	144.9
Plumbing, heating, air-conditioning	171	667.2	15.0	15.7	6.3	6.3	8.6	9.4	105.0	116.0
Painting and paper hanging	172	174.9	9.5	9.4	5.3	5.0	4.2	4.4	150.3	137.2
Electrical work	173	553.7	13.3	13.1	5.5	5.3	7.8	7.8	106.5	105.6
Masonry, stonework, and plastering	174	500.5	17.0	16.0	8.6	8.3	8.4	7.7	184.6	179.3
Carpentry and floor work	175	207.6	13.2	13.0	7.0	7.1	6.2	5.9	138.7	134.8
Roofing, siding, and sheet metal work	176	211.1	19.7	18.3	11.0	10.0	8.6	8.3	239.6	247.1
Concrete work	177	n.a.	13.0	12.5	6.9	7.0	6.0	5.5	139.3	152.7
Water well drilling	178	n.a.	12.7	13.3	7.0	7.6	5.7	5.7	185.6	166.5
Miscellaneous special trade contractors	179	n.a.	14.8	15.7	7.1	7.8	7.7	8.0	146.7	159.1
Manufacturing		19,426.0	13.0	13.1	5.7	5.8	7.3	7.3	107.3	113.0
Durable goods		11,422.0	14.2	14.1	5.9	6.0	8.2	8.1	111.2	116.5
Lumber and wood products	24	757.5	19.5	18.4	10.0	9.4	9.4	9.1	187.9	177.5
Logging	241	87.4	19.8	19.5	12.8	11.7	6.9	7.7	346.7	307.6
Sawmills and planing mills	242	201.9	19.9	18.6	10.2	9.6	9.6	9.0	192.1	187.3
Sawmills and planing mills, general	2421	162.8	20.3	18.4	10.4	9.5	9.9	8.9	200.6	191.6
Hardwood dimension and flooring mills	2426	36.7	16.9	18.7	8.7	9.3	8.3	9.4	135.2	154.8
Special product sawmills, n.e.c.	2429	n.a.	31.0	25.6	18.2	16.6	12.8	8.9	367.6	334.6
Millwork, plywood and structural members	243	270.3	18.3	17.7	9.2	8.8	9.2	8.9	155.1	151.2
Millwork	2431	109.4	20.3	18.0	10.3	9.2	10.0	8.8	177.4	158.0
Wood kitchen cabinets	2434	[illegible]	15.2	14.8	7.6	7.2	7.7	7.5	111.8	122.2
Hardwood veneer and plywood	2435	[illegible]	16.4	17.1	7.5	8.2	8.9	8.9	126.9	127.4
Softwood veneer and plywood	2436	34.1	12.8	12.9	6.0	6.1	6.8	6.8	170.6	126.7
Structural wood members, n.e.c.	2439	n.a.	26.3	30.4	14.9	15.0	13.3	15.3	181.4	251.8
Wood containers	244	44.1	17.7	16.2	10.1	9.0	7.7	7.2	186.1	180.9
Nailed wood boxes and shook	2441	n.a.	15.7	14.7	8.8	7.5	6.9	7.2	159.0	134.5
Wood pallets and skids	2448	n.a.	18.1	16.6	10.5	9.6	7.6	7.0	162.7	199.1
Wood containers, n.e.c.	2449	n.a.	17.7	14.9	9.2	7.3	8.5	7.6	184.5	142.3
Wood buildings and mobile homes	245	65.5	28.4	25.2	13.0	11.0	15.4	14.2	205.2	164.9
Mobile homes	2451	43.5	28.7	23.8	12.7	9.8	16.0	14.0	197.8	155.7
Prefabricated wood buildings	2452	n.a.	27.9	27.9	13.5	13.2	14.3	14.7	220.3	183.4

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Miscellaneous wood products	249	88.1	16.1	15.4	7.6	7.5	8.5	7.9	137.4	129.0
Wood preserving	2491	n.a.	19.8	18.2	8.5	9.0	11.3	9.2	153.7	132.3
Reconstituted wood products	2493	n.a.	13.0	11.6	5.9	5.4	7.1	6.2	107.4	105.0
Wood products, n.e.c.	2499	n.a.	16.2	16.0	7.8	7.9	8.3	8.1	142.4	136.1
Furniture and fixtures	25	526.4	16.6	16.1	7.3	7.2	9.3	8.9	115.6	124.9
Household furniture	251	303.4	15.6	15.5	6.9	6.9	8.7	8.5	103.9	113.1
Wood household furniture	2511	134.1	15.1	15.3	6.4	6.7	8.7	8.6	96.7	111.6
Upholstered household furniture	2512	100.1	14.1	14.1	6.4	6.2	7.7	7.9	87.2	88.7
Metal household furniture	2514	25.5	17.4	15.7	7.3	6.6	10.1	9.1	132.6	120.2
Mattresses and bedsprings	2515	29.1	21.5	21.1	10.6	10.6	10.9	10.5	140.9	185.2
Wood tv and radio cabinets	2517	n.a.	13.8	14.0	6.5	6.5	7.3	7.5	173.3	111.6
Household furniture, n.e.c.	2519	n.a.	14.4	15.6	7.1	8.5	7.3	7.1	147.0	149.2
Office furniture	252	71.9	19.7	17.5	8.4	7.5	11.3	9.9	150.3	162.7
Wood office furniture	2521	n.a.	16.0	13.8	7.5	6.3	8.5	7.5	115.9	124.5
Office furniture, except wood	2522	n.a.	23.1	20.9	9.2	8.7	13.9	12.2	182.1	198.7
Public building and related furniture	253	33.2	18.6	19.6	7.6	8.5	11.1	11.0	132.0	163.5
Partitions and fixtures	254	81.1	18.9	17.2	8.6	7.8	10.3	9.4	134.4	130.5
Wood partitions and fixtures	2541	n.a.	18.1	16.5	8.2	7.4	9.8	9.1	131.8	116.4
Partitions and fixtures, except wood	2542	n.a.	19.9	18.0	9.0	8.2	10.8	9.7	137.8	147.2
Miscellaneous furniture and fixtures	259	36.9	11.7	12.4	5.5	5.8	6.2	6.5	88.4	96.1
Drapery hardware and blinds and shades	2591	n.a.	8.8	10.8	4.0	5.2	4.8	5.6	69.3	78.5
Furniture and fixtures, n.e.c.	2599	n.a.	16.8	14.7	8.1	6.8	8.6	7.9	122.6	122.6
Stone, clay, and glass products	32	569.0	16.2	15.5	7.6	7.4	8.6	8.1	143.5	149.8
Flat glass	321	16.8	24.6	21.9	7.6	7.3	17.0	14.5	110.7	116.6
Glass and glassware, pressed or blown	322	87.3	15.2	14.2	6.9	6.5	8.3	7.6	135.5	139.7
Glass containers	3221	43.2	16.9	15.2	7.8	6.7	9.2	8.5	168.4	163.7
Pressed and blown glass, n.e.c.	3229	44.1	13.4	13.2	5.9	6.4	7.5	6.8	101.8	117.4
Products of purchased glass	323	57.3	18.5	16.9	7.1	6.7	11.4	10.1	124.2	120.8
Structural clay products	325	37.8	16.8	17.1	8.3	7.9	8.5	9.2	153.6	179.0
Brick and structural clay tile	3251	n.a.	18.5	19.7	9.4	9.1	9.1	10.6	177.2	183.4
Ceramic wall and floor tile	3253	n.a.	17.5	15.1	7.4	6.4	10.1	8.7	121.8	170.0
Clay refractories	3255	n.a.	13.8	14.0	7.7	7.0	6.1	7.0	171.3	158.2
Structural clay products, n.e.c.	3259	n.a.	13.0	17.3	6.8	8.9	6.1	8.4	91.5	237.1
Pottery and related products	326	40.4	17.0	15.8	9.4	9.2	7.6	6.6	160.5	186.7
Vitreous plumbing fixtures	3261	n.a.	28.4	23.7	17.1	16.4	11.3	7.3	291.4	293.4
Porcelain electrical supplies	3264	n.a.	15.8	14.8	8.5	7.7	7.3	7.1	139.4	181.6
Pottery products, n.e.c.	3269	n.a.	10.6	9.9	4.9	5.4	5.7	4.5	67.7	106.9
Concrete, gypsum, and plaster products	327	212.5	16.7	15.8	8.3	8.2	8.4	7.6	162.0	167.1
Concrete block and brick	3271	20.0	20.1	17.3	9.5	8.2	10.5	9.1	185.2	141.4
Concrete products, n.e.c.	3272	73.0	22.4	20.6	11.2	10.8	11.2	9.8	194.5	196.5
Ready-mixed concrete	3273	100.2	13.9	13.7	7.1	7.1	6.8	6.5	155.6	169.9
Gypsum products	3275	n.a.	6.3	5.7	2.4	2.5	3.9	3.2	58.6	59.4
Cut stone and stone products	328	n.a.	15.0	15.2	7.7	7.6	7.3	7.5	145.1	120.4
Miscellaneous nonmetallic mineral products	329	83.9	13.6	13.7	6.5	6.7	7.1	7.0	122.6	132.4
Abrasive products	3291	22.1	15.3	15.3	7.7	7.7	7.7	7.6	123.8	149.4
Asbestos products	3292	7.1	-	13.1	-	7.1	-	5.9	-	118.9
Mineral wool	3296	25.2	10.8	10.5	5.0	4.7	5.8	5.8	98.3	104.2
Nonclay refractories	3297	n.a.	19.0	14.7	10.0	8.0	9.0	6.7	202.3	166.4
Nonmetallic mineral products, n.e.c.	3299	n.a.	-	16.5	-	9.0	-	7.4	-	120.6
Primary metal industries	33	772.0	19.4	18.7	8.2	8.1	11.2	10.5	161.2	168.3
Blast furnace and basic steel products	331	277.7	16.8	16.7	6.5	6.8	10.4	9.8	159.5	166.8
Blast furnaces and steel mills	3312	209.2	15.9	15.5	5.6	5.8	10.3	9.7	152.8	153.1
Steel wire and related products	3315	n.a.	18.7	16.8	9.0	9.7	9.7	7.1	147.8	178.4

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]: Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Cold finishing of steel shapes	3316	n.a.	24.0	22.8	11.2	11.0	12.8	11.7	215.8	274.2
Steel pipe and tubes	3317	25.0	20.5	22.5	9.5	10.6	11.0	11.9	189.5	192.3
Iron and steel foundries	332	137.8	27.4	25.4	11.8	10.8	15.6	14.7	185.7	183.6
Gray and ductile iron foundries	3321	84.2	30.3	27.7	12.1	11.1	18.2	16.6	181.4	183.5
Malleable iron foundries	3322	9.3	21.7	20.3	10.1	8.7	11.7	11.6	207.5	181.0
Steel investment foundries	3324	n.a.	17.4	17.3	9.2	8.7	8.1	8.6	138.4	154.4
Steel foundries, n.e.c.	3325	29.1	25.4	24.8	12.9	11.6	12.6	13.2	215.3	199.7
Primary nonferrous metals	333	45.6	24.6	19.9	7.6	7.6	17.0	12.2	155.7	159.9
Primary copper	3331	n.a.	19.6	16.0	6.5	6.1	13.1	9.9	191.2	190.9
Primary aluminum	3334	25.7	29.6	23.9	8.3	9.0	21.3	14.9	164.3	174.8
Primary nonferrous metals, n.e.c.	3339	n.a.	17.1	14.4	6.7	5.9	10.4	8.5	125.9	122.0
Secondary nonferrous metals	334	n.a.	24.2	23.7	12.2	12.2	12.0	11.5	233.2	242.5
Nonferrous rolling and drawing	335	177.9	14.5	15.3	6.8	7.1	7.7	8.2	134.3	149.2
Copper rolling and drawing	3351	24.0	17.5	18.3	9.0	9.6	8.5	8.7	178.1	214.3
Aluminum sheet, plate, and foil	3353	28.1	13.0	13.1	4.2	4.3	8.9	8.8	74.1	82.6
Aluminum extruded products	3354	n.a.	14.0	16.8	6.4	8.5	7.6	8.2	115.1	142.7
Aluminum rolling and drawing, n.e.c.	3355	n.a.	11.5	10.0	3.7	2.3	7.8	7.7	83.7	46.1
Nonferrous rolling and drawing, n.e.c.	3356	n.a.	12.1	9.3	5.7	4.4	6.4	4.9	105.8	104.0
Nonferrous wiredrawing and insulating	3357	75.3	14.9	15.9	7.6	7.4	7.3	8.5	160.3	170.6
Nonferrous foundries (castings)	336	87.4	22.0	20.9	10.4	10.0	11.6	10.9	181.6	193.7
Aluminum die-castings	3363	n.a.	-	21.5	-	9.8	-	11.7	-	199.0
Nonferrous die-casting except aluminum	3364	n.a.	17.4	19.2	8.2	8.7	9.2	10.5	144.6	178.9
Aluminum foundries	3365	25.8	22.1	21.9	10.8	10.7	11.3	11.2	177.5	198.8
Copper foundries	3366	n.a.	22.2	21.2	10.5	11.6	11.7	9.5	210.6	225.9
Nonforrous foundries, n.e.c.	3369	n.a.	22.3	17.7	10.7	8.4	11.6	9.3	156.9	145.6
Miscellaneous primary metal products	339	n.a.	16.4	15.2	8.3	7.2	8.1	7.9	129.3	115.8
Metal heat treating	3398	n.a.	17.4	16.1	9.3	7.8	8.1	8.3	132.5	119.5
Primary metal products, n.e.c.	3399	n.a.	15.1	14.0	7.0	6.5	8.1	7.5	125.1	110.9
Fabricated metal products	34	1,445.9	18.7	18.5	7.9	7.9	10.8	10.7	138.5	147.6
Metal cans and shipping containers	341	52.5	18.2	16.2	7.4	6.5	10.8	9.7	141.8	128.1
Metal cans	3411	42.2	16.8	14.3	6.7	5.5	10.1	8.8	125.7	112.2
Metal barrels, drums, and pails	3412	n.a.	23.8	24.0	10.4	10.5	13.3	13.5	206.6	193.1
Cutlery, handtools, and hardware	342	132.6	13.5	14.8	6.0	6.2	7.6	8.5	112.1	131.7
Cutlery	3421	n.a.	13.2	16.9	5.5	8.1	7.7	8.8	107.2	151.0
Hand and edge tools, n.e.c.	3423	n.a.	15.9	15.4	7.1	6.3	8.8	9.0	117.8	108.6
Saw blades and handsaws	3425	45.2	11.5	10.4	5.9	5.0	5.6	5.4	116.3	83.1
Hardware, n.e.c.	3429	75.8	12.6	14.6	5.5	6.0	7.1	8.5	109.6	145.3
Plumbing and heating, except electric	343	63.0	20.9	20.3	8.0	7.8	12.8	12.5	149.3	128.7
Plumbing fixture fittings and trim	3432	27.3	15.3	12.8	6.5	6.6	8.8	6.2	135.9	103.9
Heating equipment, except electric	3433	22.1	-	18.6	-	7.6	-	11.0	-	127.5
Fabricated structural metal products	344	430.9	21.7	21.3	9.6	9.6	12.1	11.7	159.3	167.9
Fabricated structural metal	3441	77.9	25.2	24.4	12.4	12.1	12.8	12.2	202.0	198.8
Metal doors, sash, and trim	3442	n.a.	20.4	20.4	8.6	9.4	11.7	11.0	139.7	163.3
Fabricated plate work (boiler shops)	3443	108.1	22.7	24.0	10.1	11.1	12.6	12.9	159.2	205.6
Sheet metalwork	3444	95.9	21.2	19.1	8.6	7.3	12.7	11.8	158.0	128.5
Architectural metal work	3446	30.0	20.2	17.1	8.7	6.6	11.5	10.4	140.2	138.0
Prefabricated metal buildings	3448	n.a.	17.3	17.2	7.5	7.8	9.8	9.4	135.5	128.1
Miscellaneous metal work	3449	n.a.	19.3	19.0	8.4	7.9	10.9	11.1	136.4	127.3
Screw machine products, bolts, etc.	345	99.9	14.4	14.7	5.6	5.9	8.8	8.8	86.0	89.5
Screw machine products	3451	48.1	15.5	15.2	5.8	6.2	9.8	9.0	76.5	87.9
Bolts, nuts, rivets, and washers	3452	51.8	13.3	14.2	5.5	5.6	7.9	8.6	95.4	91.0
Metal forgings and stampings	346	232.4	23.7	23.1	8.9	8.7	14.9	14.4	162.8	186.8
Iron and steel forgings	3462	32.8	19.5	23.5	10.2	10.8	9.3	12.7	195.1	226.0
Nonferrous forgings	3463	n.a.	18.6	21.8	6.9	9.2	11.8	12.6	143.2	208.8
Automotive stampings	3465	108.6	30.0	27.6	9.9	9.8	20.1	17.8	173.5	222.6
Crowns and closures	3466	n.a.	11.7	11.9	4.6	4.3	7.1	7.6	106.9	104.8
Metal stampings, n.e.c.	3469	80.4	18.2	17.4	7.5	6.4	10.7	11.0	140.6	123.6

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Metal services, n.e.c.	347	121.4	17.3	15.9	8.5	7.4	8.8	8.5	138.6	132.9
Plating and polishing	3471	78.1	16.9	15.3	8.6	7.2	8.3	8.1	139.7	128.1
Metal coating and allied services	3479	43.3	18.1	17.0	8.3	7.8	9.8	9.2	136.7	141.5
Ordnance and accessories, n.e.c.	348	74.9	9.7	10.2	4.7	4.5	5.0	5.7	83.6	96.7
Ammunition, except for small arms, n.e.c.	3483	43.7	7.4	9.4	3.4	4.0	4.0	5.4	65.3	82.9
Small arms	3484	n.a.	16.9	14.8	9.7	7.2	7.2	7.6	159.4	164.1
Miscellaneous fabricated metal products	349	238.1	16.4	16.7	7.1	7.5	9.3	9.2	129.4	138.3
Industrial valves	3491	n.a.	15.0	15.3	6.1	6.6	8.9	8.7	111.4	134.5
Fluid power valves and hose fittings	3492	n.a.	13.2	12.4	4.4	4.5	8.7	8.0	75.4	90.7
Steel springs, except wire	3493	n.a.	22.2	20.0	12.1	11.4	10.1	8.5	208.2	218.6
Valves and pipe fittings, n.e.c.	3494	29.6	-	17.0	-	8.3	-	8.8	-	148.7
Wire springs	3495	n.a.	13.1	12.4	4.6	4.7	8.5	7.7	95.5	87.7
Miscellaneous fabricated wire products	3496	54.4	16.5	17.5	7.9	8.5	8.6	8.9	158.9	170.7
Metal foil and leaf	3497	n.a.	13.0	13.6	3.8	5.8	9.2	7.8	59.7	88.2
Fabricated pipe and fittings	3498	n.a.	21.5	19.8	10.8	8.8	10.7	11.0	195.4	148.9
Fabricated metal products, n.e.c.	3499	n.a.	17.6	18.5	7.4	7.8	10.2	10.7	119.2	130.6
Industrial machinery and equipment	35	2,131.9	12.0	12.1	4.7	4.8	7.3	7.3	82.8	86.8
Engines and turbines	351	91.5	14.6	13.9	5.1	5.2	9.5	8.6	99.8	112.3
Internal combustion engines, n.e.c.	3519	65.9	15.1	15.7	5.3	5.8	9.8	9.8	111.2	128.5
Farm and garden machinery	352	104.8	16.4	18.7	6.2	6.8	10.1	11.8	104.6	102.7
Farm machinery and equipment	3523	78.0	15.3	19.0	5.9	7.2	9.3	11.8	100.7	109.6
Lawn and garden equipment	3524	n.a.	19.3	17.6	7.0	5.8	12.3	11.8	115.2	82.5
Construction and related machinery	353	222.7	16.5	16.3	6.6	6.7	9.9	9.7	112.1	116.5
Construction machinery	3531	83.1	16.7	16.3	6.8	6.2	9.9	10.0	113.4	117.7
Mining machinery	3532	16.6	18.7	19.6	7.7	8.2	11.0	11.4	138.3	152.3
Oil and gas field machinery	3533	39.5	14.6	12.9	5.6	5.5	9.0	7.4	114.4	104.7
Elevators and moving stairways	3534	n.a.	10.1	12.5	4.9	5.1	5.2	7.5	93.5	107.0
Conveyors and conveying equipment	3535	34.5	17.0	17.7	6.4	7.4	10.5	10.3	98.6	102.0
Hoists, cranes, and monorails	3536	n.a.	15.5	14.6	6.5	7.4	9.0	7.2	98.3	129.0
Industrial trucks and tractors	3537	28.2	20.8	20.0	8.3	8.3	12.5	11.7	123.1	126.8
Metalworking machinery	354	336.9	12.0	12.7	4.2	4.6	7.7	8.1	70.2	78.4
Machine tools, metal cutting types	3541	49.2	10.2	11.2	3.8	4.5	6.4	6.7	58.7	65.7
Machine tools, metal forming types	3542	18.5	12.9	14.8	4.9	5.9	8.1	8.9	94.4	101.8
Special dies, tools, jigs and fixtures	3544	148.7	12.3	13.1	3.9	4.2	8.4	8.9	59.4	59.5
Machine tool accessories	3545	58.3	11.3	12.6	4.4	4.7	6.9	7.9	85.4	100.4
Power-driven handtools	3546	21.4	12.1	9.5	4.6	3.8	7.5	5.7	78.5	74.3
Rolling mill machinery	3547	n.a.	13.5	14.4	6.6	7.2	6.9	7.3	109.2	202.0
Welding apparatus	3548	n.a.	12.3	13.5	5.0	5.6	7.3	7.8	88.8	132.0
Metalworking machinery, n.e.c.	3549	n.a.	14.0	13.7	4.7	5.8	9.3	7.9	68.6	104.1
Special industry machinery	355	161.7	14.5	13.9	5.3	5.3	9.2	8.6	88.6	89.5
Textile machinery	3552	19.3	14.3	14.8	4.4	4.9	9.9	9.9	65.5	71.4
Woodworking machinery	3553	n.a.	20.0	18.6	7.0	6.9	12.9	11.7	114.2	100.9
Paper industries machinery	3554	n.a.	17.9	16.2	6.6	6.8	11.3	9.4	115.4	130.1
Printing trades machinery	3555	25.5	9.1	9.6	3.5	4.0	5.6	5.7	67.9	62.0
Food products machinery	3556	23.9	17.9	17.6	6.3	6.1	11.6	11.4	82.2	94.0
Special industry machinery, n.e.c.	3559	n.a.	13.6	12.6	5.3	4.9	8.2	7.7	89.0	90.4
General industrial machinery	356	242.9	14.3	13.7	5.6	5.4	8.7	8.3	90.7	98.0
Pumps and pumping equipment	3561	28.9	-	12.8	-	5.1	-	7.7	-	111.7
Ball and roller bearings	3562	43.2	12.6	13.2	4.3	4.1	8.3	9.1	71.0	73.7
Air and gas compressors	3563	24.2	13.9	12.1	4.5	4.1	9.3	8.0	89.8	106.1
Blowers and fans	3564	31.5	16.0	15.7	6.7	6.9	9.3	8.7	116.1	124.7
Packaging machinery	3565	n.a.	15.4	14.5	5.3	5.2	10.1	9.3	78.2	74.9
Speed changers, drives, and gears	3566	16.1	-	13.2	-	5.3	-	7.9	-	77.7
Industrial furnaces and ovens	3567	n.a.	16.4	17.0	6.6	7.4	9.8	9.6	93.9	126.5
Power transmission equipment, n.e.c.	3568	19.2	16.3	15.0	8.0	6.5	8.3	8.5	112.2	113.7
General industrial machinery, n.e.c.	3569	n.a.	13.5	12.1	5.5	5.2	8.0	6.8	87.7	88.5
Computer and office equipment	357	462.1	3.6	3.8	1.8	1.9	1.9	1.9	38.7	41.7
Electronic computers	3571	292.5	2.8	2.8	1.5	1.5	1.3	1.3	33.2	36.6
Computer storage devices	3572	n.a.	5.0	4.6	2.6	2.2	2.4	2.3	59.5	50.2
Computer peripheral equipment, n.e.c.	3577	n.a.	-	4.6	-	2.2	-	2.4	-	46.3

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Refrigeration and service machinery	358	190.5	16.9	16.8	6.8	7.0	10.1	9.8	128.9	125.6
Automatic vending machines	3581	n.a.	22.5	19.7	9.3	9.4	13.3	10.4	131.5	133.2
Refrigeration and heating equipment	3585	134.3	17.1	17.0	6.7	7.0	10.4	10.0	132.5	130.2
Measuring and dispensing pumps	3586	n.a.	14.1	15.1	5.6	5.9	8.5	9.2	92.6	84.6
Service industry machinery, n.e.c.	3589	n.a.	15.8	16.7	6.5	7.1	9.2	9.5	132.1	121.2
Industrial machinery, n.e.c.	359	318.9	13.0	12.9	5.1	5.1	7.9	7.9	92.1	94.8
Carburetors, pistons, rings, valves	3592	24.7	14.4	15.8	5.8	5.9	8.6	9.9	133.0	132.8
Fluid power cylinders and actuators	3593	n.a.	14.6	12.6	6.3	4.6	8.3	7.9	89.2	80.7
Fluid power pumps and motors	3594	n.a.	-	14.2	-	5.4	-	8.8	-	108.0
Scales and balances, except laboratory	3596	n.a.	10.6	8.7	3.8	3.7	6.8	4.9	67.4	73.5
Industrial machinery, n.e.c.	3599	243.4	12.6	12.6	4.9	5.0	7.7	7.6	85.3	90.6
Electronic and other electric equipment	36	1,753.4	8.7	9.1	3.6	3.9	5.1	5.1	68.3	77.5
Electric distribution equipment	361	100.2	10.6	12.0	4.4	4.8	6.2	7.2	84.7	92.0
Transformers, except electronic	3612	50.8	11.1	13.0	4.5	4.9	6.5	8.1	87.1	90.9
Switchgear and switchboard apparatus	3613	49.4	10.0	10.9	4.2	4.6	5.8	6.3	82.1	93.2
Electrical industrial apparatus	362	177.4	10.6	11.1	4.4	4.6	6.2	6.4	91.6	96.4
Motors and generators	3621	89.1	12.9	13.9	5.1	5.7	7.8	8.2	112.5	121.6
Carbon and graphite products	3624	n.a.	9.6	8.9	5.0	4.1	4.6	4.7	89.1	85.0
Relays and industrial controls	3625	68.2	7.4	8.0	3.1	3.4	4.3	4.6	67.5	76.6
Electrical industrial apparatus, n.e.c.	3629	n.a.	11.9	8.7	5.9	3.5	6.0	5.2	61.6	51.9
Household appliances	363	133.2	16.3	18.0	6.5	7.1	9.8	10.9	108.9	127.3
Household cooking equipment	3631	n.a.	24.5	25.9	10.6	9.9	14.0	16.0	157.5	149.0
Household refrigerators and freezers	3632	29.1	15.7	16.9	6.5	6.3	9.3	10.6	95.3	101.8
Household laundry equipment	3633	21.0	17.7	18.7	7.0	8.0	10.6	10.8	105.7	130.8
Electric housewares and fans	3634	36.5	12.9	14.1	4.4	5.6	8.5	8.5	78.6	102.5
Household vacuum cleaners	3635	n.a.	12.4	13.7	4.9	5.4	7.5	8.4	140.3	165.1
Household appliances, n.e.c.	3639	n.a.	15.4	20.8	6.7	9.1	8.7	11.8	99.4	173.7
Electric lighting and wiring equipment	364	196.3	11.1	10.8	4.8	4.8	6.4	6.0	98.8	100.8
Electric lamps	3641	26.0	7.8	8.6	3.0	4.0	4.8	4.6	61.5	86.8
Current-carrying wiring devices	3643	76.1	9.3	9.1	4.3	4.0	4.9	5.1	96.9	90.1
Noncurrent-carrying wiring devices	3644	16.4	16.6	14.2	7.4	7.2	9.2	7.0	143.0	135.1
Residential lighting fixtures	3645	26.0	11.8	13.0	5.0	5.2	6.7	7.8	102.0	106.8
Commercial lighting fixtures	3646	n.a.	15.9	12.8	6.4	6.6	9.4	6.2	115.6	106.8
Vehicular lighting equipment	3647	n.a.	12.9	11.4	4.6	4.1	8.3	7.3	94.5	109.2
Lighting equipment, n.e.c.	3648	n.a.	10.5	12.1	4.8	5.2	5.8	6.8	106.7	101.1
Household audio and video equipment	365	87.8	9.2	10.0	3.6	4.6	5.5	5.4	66.9	96.3
Household audio and video equipment	3651	66.1	9.6	10.6	3.8	5.0	5.8	5.5	69.8	105.9
Prerecorded records and tapes	3652	n.a.	7.9	8.2	3.0	3.2	4.9	4.9	58.8	66.2
Communications equipment	366	271.1	4.6	4.7	1.9	2.1	2.8	2.6	36.4	43.6
Telephone and telegraph apparatus	3661	140.3	4.3	4.1	1.8	1.9	2.5	2.2	37.6	38.0
Radio and tv communications equipment	3663	n.a.	4.5	4.8	1.7	2.1	2.8	2.7	32.0	44.9
Communications equipment, n.e.c.	3669	n.a.	7.3	8.0	2.9	3.1	4.4	4.8	52.0	73.6
Electronic components and accessories	367	617.7	6.1	6.6	2.6	2.9	3.5	3.7	46.4	55.2
Electron tubes	3671	35.6	8.8	10.9	5.6	6.4	3.2	4.5	113.4	148.4
Printed circuit boards	3672	n.a.	7.9	8.1	3.2	3.8	4.7	4.3	45.7	62.4
Semiconductors and related devices	3674	251.6	4.7	4.7	2.0	1.9	2.7	2.8	30.9	33.0
Electronic capacitors	3675	n.a.	6.4	6.6	2.6	2.4	3.8	4.3	79.0	53.6
Electronic resistors	3676	n.a.	5.8	7.4	2.0	3.1	3.7	4.3	51.7	87.8
Electronic coils and transformers	3677	n.a.	7.7	7.7	3.2	3.2	4.4	4.5	54.8	62.7
Electronic components, n.e.c.	3679	152.9	6.3	7.1	2.4	3.0	3.9	4.1	43.9	59.5
Miscellaneous electrical equipment and supplies	369	169.8	11.8	12.1	4.9	5.7	6.8	6.4	97.8	109.3
Storage batteries	3691	28.7	16.6	19.7	8.8	10.4	7.9	9.3	176.5	232.8
Primary batteries, dry and wet	3692	n.a.	9.1	9.3	3.7	4.5	5.4	4.8	49.7	90.7
Engine electrical equipment	3694	71.5	14.2	13.4	5.0	5.7	9.2	7.7	109.1	104.4
Magnetic and optical recording media	3695	n.a.	5.2	6.7	3.2	3.5	2.0	3.3	54.9	66.5
Electrical equipment and supplies, n.e.c.	3699	n.a.	7.9	7.7	3.4	3.6	4.5	4.1	57.6	52.5
Transportation equipment	37	2,054.4	17.8	17.7	6.6	6.8	11.1	10.9	135.0	136.6
Motor vehicles and equipment	371	857.0	23.3	22.6	8.4	8.5	14.8	14.1	166.7	173.9

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Motor vehicles and car bodies	3711	344.3	28.0	26.6	9.4	9.3	18.6	17.3	206.1	209.4
Truck and bus bodies	3713	42.5	27.5	24.8	10.1	9.0	17.4	15.7	168.1	143.7
Motor vehicle parts and accessories	3714	419.1	18.4	19.0	6.9	7.5	11.5	11.4	136.6	146.7
Truck trailers	3715	30.2	28.3	27.6	14.8	13.0	13.5	14.7	196.7	230.3
Motor homes	3716	n.a.	19.5	21.3	7.5	8.3	12.0	13.0	109.0	135.2
Aircraft and parts	372	712.4	9.9	10.1	3.6	3.7	6.3	6.4	67.9	70.2
Aircraft	3721	383.0	10.1	10.2	3.3	3.5	6.7	6.7	66.1	70.5
Aircraft engines and engine parts	3724	155.0	8.7	7.9	3.7	3.7	5.0	4.2	81.9	72.5
Aircraft parts and equipment, n.e.c.	3728	n.a.	10.5	12.0	3.9	4.1	6.6	7.8	59.1	67.7
Ship and boat building and repairing	373	194.9	36.3	38.0	14.8	15.6	21.5	22.4	344.0	343.9
Ship building and repairing	3731	125.8	44.9	45.8	17.8	18.6	27.1	27.2	456.0	438.6
Boat building and repairing	3732	69.1	22.0	23.9	9.9	10.0	12.1	13.9	158.5	172.8
Railroad equipment	374	33.9	19.3	20.9	7.2	9.7	12.1	11.2	139.0	161.0
Motorcycles, bicycles, and parts	375	n.a.	12.5	17.2	4.6	7.6	7.9	9.6	87.1	140.1
Guided missiles, space vehicles, parts	376	194.9	4.6	4.8	2.2	2.2	2.4	2.6	41.3	39.7
Guided missiles and space vehicles	3761	137.8	4.6	4.6	2.3	2.2	2.3	2.5	44.6	41.4
Space propulsion units and parts	3764	n.a.	4.5	4.6	1.9	2.1	2.6	2.5	32.6	33.5
Space vehicle equipment, n.e.c.	3769	n.a.	-	5.6	-	2.3	-	3.3	-	41.5
Miscellaneous transportation equipment	379	48.1	20.5	18.5	7.7	7.5	12.8	11.1	130.4	128.7
Travel trailers and campers	3792	18.2	24.1	23.5	9.4	9.3	14.7	14.3	143.4	168.1
Instruments and related products	38	1,025.5	5.4	5.6	2.4	2.5	3.0	3.1	49.3	55.4
Search and navigation equipment	381	299.1	3.6	3.6	1.7	1.6	1.9	2.1	41.2	35.6
Measuring and controlling devices	382	330.2	6.0	6.4	2.6	2.9	3.5	3.4	55.1	62.7
Laboratory apparatus and furniture	3821	n.a.	-	10.6	-	4.9	-	5.7	-	81.5
Environmental controls	3822	n.a.	8.7	9.9	3.9	4.4	4.9	5.5	93.7	108.0
Process control instruments	3823	65.4	6.2	6.2	2.4	2.8	3.8	3.3	38.0	49.8
Fluid meters and counting devices	3824	n.a.	6.3	6.8	3.1	3.1	3.2	3.7	61.2	79.3
Instruments to measure electricity	3825	99.8	4.8	4.7	2.3	2.3	2.5	2.5	43.7	53.9
Analytical instruments	3826	n.a.	-	5.9	-	2.9	-	3.0	-	69.6
Optical instruments and lenses	3827	n.a.	-	7.9	-	3.0	-	4.9	-	46.0
Measuring and controlling devices, n.e.c.	3829	n.a.	6.6	5.0	2.4	2.4	4.2	2.7	72.0	44.7
Medical instruments and supplies	384	239.4	7.2	7.4	3.1	3.4	4.1	4.0	60.0	74.3
Surgical and medical instruments	3841	98.5	7.0	7.0	2.7	3.2	4.2	3.8	45.7	65.8
Surgical appliances and supplies	3842	90.2	8.3	9.1	3.8	4.2	4.5	4.9	74.7	96.5
Dental equipment and supplies	3843	n.a.	7.7	6.2	3.9	3.0	3.8	3.1	82.8	54.3
X-ray apparatus and tubes	3844	n.a.	-	6.4	-	2.9	-	3.5	-	93.9
Electromedical equipment	3845	39.1	4.3	4.0	1.9	1.6	2.4	2.4	37.0	33.6
Ophthalmic goods	385	n.a.	5.0	5.7	2.4	2.6	2.6	3.0	49.0	58.6
Photographic equipment and supplies	386	108.3	5.0	5.2	2.1	2.2	2.9	3.1	35.3	49.3
Watches, clocks, watchcases and parts	387	11.5	6.3	5.9	2.4	2.7	3.9	3.2	39.2	34.6
Miscellaneous manufacturing industries	39	366.1	11.3	11.1	5.1	5.1	6.1	6.0	91.0	97.6
Jewelry, silverware, and plated ware	391	53.8	4.9	5.8	2.2	2.9	2.6	2.9	39.6	76.2
Jewelry, precious metal	3911	39.0	3.8	4.8	1.6	2.2	2.3	2.5	20.7	55.2
Silverware and plated ware	3914	n.a.	9.8	12.7	5.2	6.7	4.7	5.9	108.7	190.4
Jewelers' materials and lapidary work	3915	n.a.	4.6	4.1	2.5	2.2	2.1	1.8	60.1	66.6
Musical instruments	393	12.5	11.7	10.7	4.7	4.6	7.0	6.1	93.7	78.5
Toys and sporting goods	394	104.8	13.6	13.3	6.2	6.2	7.4	7.1	118.8	112.2
Games, toys, and children's vehicles	3944	45.2	14.7	12.7	7.0	6.6	7.7	6.1	125.2	135.9
Sporting and athletic goods, n.e.c.	3949	59.0	13.7	14.2	6.2	6.2	7.6	7.9	122.3	101.0
Pens, pencils, office, and art supplies	395	35.7	10.1	10.1	4.4	4.6	5.6	5.5	82.2	94.4
Pens and mechanical pencils	3951	n.a.	12.4	10.5	3.8	3.8	8.6	6.7	96.9	89.9
Lead pencils and art goods	3952	n.a.	13.5	13.8	7.6	7.2	5.9	6.6	121.9	171.8
Carbon paper and inked ribbons	3955	n.a.	10.6	9.4	6.0	4.6	4.6	4.8	95.0	80.6

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]: Total cases [6], 1988	Total cases [6], 1989	Lost workday cases, 1988	Lost workday cases, 1989	Nonfatal cases without lost workdays, 1988	Nonfatal cases without lost workdays, 1989	Lost workdays, 1988	Lost workdays, 1989
Costume jewelry and notions	396	38.4	6.4	7.2	3.3	3.4	3.0	3.8	60.5	82.7
Costume jewelry	3961	23.3	4.9	6.1	2.6	3.0	2.3	3.1	55.6	88.9
Fasteners, buttons, needles, and pins	3965	n.a.	9.0	8.9	4.6	4.0	4.4	4.9	68.9	73.1
Miscellaneous manufactures	399	142.9	13.2	12.6	6.0	5.7	7.2	6.8	98.2	100.7
Brooms and brushes	3991	n.a.	14.1	13.0	6.6	6.7	7.5	6.4	124.5	102.9
Signs and advertising specialties	3993	58.0	14.8	12.5	6.3	5.6	8.4	6.9	105.6	91.6
Manufacturing industries, n.e.c.	3999	n.a.	11.8	12.6	5.6	5.7	6.2	6.9	80.5	105.2
Nondurable goods		8,004.0	11.4	11.6	5.4	5.5	6.0	6.1	101.6	107.8
Food and kindred products	20	1,645.2	18.6	18.5	9.2	9.3	9.4	9.2	169.8	174.7
Meat products	201	409.6	27.9	27.1	13.3	13.5	14.5	13.7	246.1	250.9
Meat packing plants	2011	138.5	39.2	35.1	19.2	18.3	20.0	16.9	357.0	358.7
Sausages and other prepared meats	2013	84.1	25.5	22.6	13.2	12.2	12.3	10.4	239.5	233.5
Poultry slaughtering and processing	2015	186.9	19.8	22.8	8.7	10.2	11.1	12.6	159.4	173.2
Dairy products	202	157.1	15.6	15.2	8.0	7.9	7.6	7.3	164.0	156.5
Creamery butter	2021	n.a.	18.8	13.6	9.8	5.6	9.0	8.0	190.9	135.5
Cheese, natural and processed	2022	42.2	15.2	15.6	7.6	7.6	7.6	8.0	130.6	145.4
Dry, condensed, evaporated products	2023	n.a.	10.0	12.1	4.9	5.8	5.1	6.3	100.6	102.3
Ice cream and frozen desserts	2024	n.a.	17.4	19.4	9.2	10.2	8.2	9.2	161.5	189.6
Fluid milk	2026	75.1	16.4	14.5	8.5	7.9	8.0	6.5	194.5	164.9
Preserved fruits and vegetables	203	245.2	17.3	17.5	7.9	8.3	9.4	9.2	129.1	148.8
Canned specialties	2032	24.0	22.7	19.2	8.2	6.5	14.6	12.7	145.1	99.1
Canned fruits and vegetables	2033	86.2	18.7	18.1	8.5	9.3	10.2	8.8	128.9	146.1
Dehydrated fruits, vegetables, soups	2034	n.a.	14.4	15.0	8.4	9.5	6.1	5.5	169.6	173.2
Pickles, sauces, and salad dressings	2035	n.a.	15.4	15.8	7.5	7.3	7.9	8.5	104.3	144.0
Frozen fruits and vegetables	2037	51.5	13.3	15.4	6.2	7.7	7.1	7.6	117.0	158.3
Frozen specialties, n.e.c.	2038	n.a.	18.0	19.7	8.7	8.0	9.3	11.6	132.2	168.1
Grain mill products	204	124.7	13.1	13.1	6.4	6.7	6.6	6.4	114.1	139.8
Flour and other grain mill products	2041	20.7	12.8	12.3	6.5	6.1	6.3	6.2	128.9	156.5
Cereal breakfast foods	2043	n.a.	12.0	11.4	7.3	6.2	4.7	5.3	142.7	120.6
Rice milling	2044	n.a.	21.1	17.7	8.8	9.8	12.2	7.9	148.4	329.6
Prepared flour mixes and doughs	2045	n.a.	17.1	21.6	9.4	12.1	7.7	9.5	136.2	185.4
Wet corn milling	2046	n.a.	12.6	11.2	3.4	4.6	9.2	6.6	88.0	119.7
Dog and cat food	2047	n.a.	15.2	13.7	6.9	6.5	8.3	7.1	105.6	116.1
Prepared feeds, n.e.c.	2048	43.6	11.4	12.0	5.6	6.0	5.8	5.9	93.3	116.4
Bakery products	205	212.9	13.1	13.5	7.1	6.9	6.0	6.6	155.2	153.9
Bread, cake, and related products	2051	155.1	13.3	13.4	7.5	6.9	5.8	6.4	169.9	158.5
Cookies and crackers	2052	n.a.	12.3	13.7	6.2	7.1	6.0	6.7	113.0	146.2
Frozen bakery products, except bread	2053	57.8	14.9	14.0	6.0	5.1	9.0	8.9	113.4	109.9
Sugar and confectionery products	206	102.4	13.6	14.2	7.4	6.9	6.2	7.3	135.9	118.8
Raw cane sugar	2061	7.1	24.8	22.1	11.2	10.4	13.7	11.7	161.7	185.1
Cane sugar refining	2062	5.3	11.9	11.3	7.1	6.1	4.9	5.2	148.2	105.9
Beet sugar	2063	9.5	14.8	15.3	7.7	7.6	7.1	7.6	113.4	94.2
Candy and other confectionery products	2064	50.9	13.4	14.0	7.7	6.8	5.7	7.2	147.7	120.3
Chocolate and cocoa products	2066	n.a.	10.7	12.0	5.7	5.6	5.1	6.4	107.2	114.2
Chewing gum	2067	n.a.	11.4	16.1	6.1	8.4	5.3	7.7	139.6	154.6
Salted and roasted nuts and seeds	2068	n.a.	-	10.6	-	4.7	-	5.9	-	55.2
Fats and oils	207	31.0	17.0	15.3	8.4	7.7	8.5	7.5	146.6	164.8
Cottonseed oil mills	2074	n.a.	19.2	19.5	8.2	9.5	11.0	10.0	158.3	254.8
Soybean oil mills	2075	n.a.	13.4	10.3	6.3	4.3	7.1	6.0	110.1	71.0
Vegetable oil mills, n.e.c.	2076	n.a.	10.4	14.1	6.2	7.4	4.2	6.8	87.9	138.3
Animal and marine fats and oils	2077	n.a.	22.4	22.9	12.9	11.9	9.4	11.0	250.6	253.8
Edible fats and oils, n.e.c.	2079	n.a.	15.5	11.6	6.9	6.3	8.6	5.3	98.2	135.2
Beverages	208	191.5	18.0	17.7	9.1	9.1	8.9	8.6	163.7	165.1
Malt beverages	2082	41.2	16.7	13.6	5.0	5.0	11.7	8.6	113.0	111.3
Malt	2083	n.a.	23.6	23.3	9.4	11.9	14.1	11.4	221.1	274.5
Wines, brandy, and brandy spirits	2084	n.a.	17.8	14.0	7.7	6.6	10.1	7.4	116.8	125.9
Distilled and blended liquors	2085	n.a.	9.7	14.2	5.1	7.3	4.6	6.9	119.0	126.4
Bottled and canned soft drinks	2086	108.4	20.3	21.0	11.5	11.7	8.7	9.3	200.0	203.5
Flavoring extracts and syrups, n.e.c.	2087	n.a.	8.0	9.6	4.5	4.6	3.5	5.0	79.2	77.6

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]: Total cases [6] 1988	Total cases [6] 1989	Lost workday cases 1988	Lost workday cases 1989	Nonfatal cases without lost workdays 1988	Nonfatal cases without lost workdays 1989	Lost workdays 1988	Lost workdays 1989
Miscellaneous food and kindred products	209	170.8	15.3	16.3	7.9	8.4	7.5	7.9	138.9	139.3
Canned and cured fish and seafoods	2091	n.a.	23.3	25.9	9.5	12.9	13.8	13.0	99.1	144.4
Fresh or frozen prepared fish	2092	n.a.	19.7	24.3	10.3	11.5	9.5	12.7	164.6	156.5
Roasted coffee	2095	n.a.	7.9	8.5	3.7	4.2	4.2	4.3	105.3	94.5
Potato chips and similar snacks	2096	n.a.	11.6	12.8	6.3	6.8	5.3	6.0	118.6	135.3
Macaroni and spaghetti	2098	n.a.	17.5	13.4	8.7	7.3	8.7	6.0	210.8	163.2
Food preparations, n.e.c.	2099	n.a.	13.8	13.4	7.2	7.5	6.7	5.9	131.6	135.2
Tobacco products	21	49.4	9.3	8.7	3.0	3.4	6.3	5.3	53.9	64.2
Cigars	212	n.a.	-	9.3	-	4.5	-	4.8	-	65.5
Tobacco stemming and redrying	214	n.a.	-	18.3	-	7.4	-	10.8	-	122.6
Textile mill products	22	723.6	9.6	10.3	4.0	4.2	5.6	6.1	78.8	81.4
Broadwoven fabric mills, cotton	221	95.9	7.3	8.5	2.5	2.7	4.8	5.8	46.5	57.1
Broadwoven fabric mills, manmade	222	84.6	8.6	8.0	3.6	3.4	5.0	4.6	65.8	72.1
Broadwoven fabric mills, wool	223	19.0	9.9	9.7	5.3	5.2	4.6	4.5	128.1	118.8
Narrow fabric mills	224	24.8	10.9	11.5	4.6	5.4	6.3	6.0	83.8	96.7
Knitting mills	225	215.6	8.7	9.0	4.2	4.2	4.5	4.8	81.1	73.4
Women's hosiery, except socks	2251	33.1	4.1	4.6	1.8	2.3	2.3	2.3	53.6	39.5
Hosiery, n.e.c.	2252	39.6	7.0	7.4	3.4	3.6	3.6	3.9	66.0	63.3
Knit outerwear mills	2253	66.5	9.0	7.5	4.4	3.8	4.6	3.7	93.7	61.7
Knit underwear mills	2254	29.5	9.5	11.6	4.9	4.9	4.6	6.7	92.5	107.2
Weft knit fabric mills	2257	27.4	12.2	14.7	5.7	7.0	6.5	7.7	76.9	102.4
Lace and warp knit fabric mills	2258	n.a.	12.0	11.2	5.1	4.6	6.8	6.7	97.0	88.5
Knitting mills, n.e.c.	2259	n.a.	-	12.3	-	5.7	-	6.7	-	102.7
Textile finishing, except wool	226	61.5	10.6	11.6	5.0	5.1	5.6	6.5	86.3	89.2
Finishing plants, cotton	2261	25.2	-	11.4	-	5.0	-	6.3	-	86.8
Finishing plants, manmade	2262	23.6	10.4	10.5	5.2	4.6	5.2	5.9	89.3	91.6
Finishing plants, n.e.c.	2269	n.a.	11.1	13.9	5.3	5.9	5.8	8.0	94.9	85.8
Carpets and rugs	227	63.3	9.3	13.8	3.7	4.9	5.6	8.9	86.6	94.3
Yarn and thread mills	228	106.6	11.6	11.7	3.6	4.1	8.0	7.6	70.4	83.5
Yarn spinning mills	2281	84.8	11.9	11.5	3.5	3.9	8.4	7.6	64.3	79.1
Throwing and winding mills	2282	15.1	9.2	12.5	4.8	5.6	4.5	6.9	113.5	112.5
Thread mills	2284	n.a.	13.3	12.4	3.4	4.0	9.9	8.4	56.8	75.4
Miscellaneous textile goods	229	52.3	13.9	13.9	6.5	6.0	7.4	7.8	129.8	123.1
Coated fabrics, not rubberized	2295	n.a.	19.5	14.8	10.0	6.1	9.5	8.6	215.6	122.1
Nonwoven fabrics	2297	n.a.	8.8	11.4	4.5	4.8	4.3	6.6	85.9	99.0
Textile goods, n.e.c.	2299	n.a.	-	15.8	-	7.4	-	8.4	-	153.0
Apparel and other textile products	23	1,074.3	8.0	8.6	3.5	3.8	4.6	4.8	67.9	80.5
Men's and boys' suits and coats	231	54.4	7.4	8.9	3.4	4.3	4.0	4.6	66.7	98.8
Men's and boys' furnishings	232	285.6	10.4	11.3	4.7	5.5	5.6	5.8	102.4	126.9
Men's and boys' shirts	2321	n.a.	7.8	8.5	3.3	3.9	4.6	4.6	59.1	73.3
Men's and boys' underwear and nightwear	2322	n.a.	-	10.6	-	4.5	-	6.2	-	77.1
Men's and boys' trousers and slacks	2325	87.3	13.7	14.7	6.4	7.4	7.3	7.3	150.2	188.8
Men's and boys' work clothing	2326	46.6	12.3	12.3	6.2	6.3	6.2	6.0	121.7	152.4
Men's and boys' clothing, n.e.c.	2329	n.a.	7.9	10.0	3.7	4.8	4.2	5.1	89.8	106.6
Women's and misses' outerwear	233	342.1	5.0	4.9	2.0	1.8	3.0	3.0	41.4	45.1
Women's and misses' blouses and shirts	2331	43.2	4.7	4.1	1.9	1.4	2.8	2.7	26.1	30.1
Women's, junior's, and misses' dresses	2335	75.8	2.7	3.9	1.0	1.3	1.7	2.6	21.5	51.6
Women's and misses' suits and coats	2337	37.9	-	5.7	-	2.0	-	3.7	-	43.3
Women's and misses' outerwear, n.e.c.	2339	165.1	5.7	5.2	2.4	2.1	3.3	3.2	52.2	46.1
Women's and children's undergarments	234	66.4	6.8	7.2	2.8	2.8	3.9	4.4	65.0	53.1
Women's and children's underwear	2341	53.0	6.0	7.1	2.5	2.8	3.5	4.4	65.4	54.7
Bras, girdles, and allied garments	2342	13.5	10.0	7.6	4.3	2.8	5.6	4.7	63.0	46.9

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Hats, caps, and millinery	235	n.a.	9.1	10.7	3.2	4.7	5.9	6.0	46.6	108.3
Girls' and children's outerwear	236	58.9	6.8	8.0	2.9	3.5	3.9	4.5	47.8	72.3
Girls' and children's dresses, blouses	2361	n.a.	7.5	8.2	2.6	3.2	4.9	5.1	38.8	74.6
Girls' and children's outerwear, n.e.c.	2369	n.a.	6.4	7.8	3.1	3.8	3.2	4.1	53.2	71.0
Miscellaneous apparel and accessories	238	45.0	7.3	6.9	3.0	3.3	4.2	3.6	57.8	60.9
Robes and dressing gowns	2384	n.a.	7.4	5.1	2.8	2.8	4.6	2.3	58.8	38.1
Waterproof outerwear	2385	n.a.	9.7	6.1	4.1	3.3	5.6	2.8	79.7	72.9
Miscellaneous fabricated textile products	239	204.1	10.7	11.6	4.5	5.1	6.2	6.5	73.0	84.6
Curtains and draperies	2391	25.0	9.2	8.5	4.1	4.0	5.1	4.4	84.0	69.4
Housefurnishings, n.e.c.	2392	54.8	11.2	11.6	4.8	5.3	6.4	6.3	80.2	81.3
Textile bags	2393	n.a.	13.4	14.2	5.8	6.0	7.6	8.2	87.4	112.0
Canvas and related products	2394	n.a.	11.3	12.3	5.3	5.7	6.0	6.7	84.3	72.7
Pleating and stitching	2395	n.a.	-	9.6	-	4.3	-	5.3	-	60.0
Automotive and apparel trimmings	2396	46.6	11.5	14.7	4.4	5.5	7.1	9.2	77.4	113.2
Fabricated textile products, n.e.c.	2399	n.a.	9.6	10.1	4.4	4.7	5.2	5.4	81.1	70.6
Paper and allied products	26	697.1	13.1	12.7	5.9	5.8	7.2	6.9	124.5	132.9
Pulp mills	261	n.a.	13.3	13.8	4.9	5.3	8.4	8.5	108.0	108.7
Paper mills	262	177.5	12.9	11.9	5.2	4.7	7.7	7.2	133.3	137.5
Paperboard mills	263	52.0	14.6	12.1	5.2	4.9	9.4	7.3	135.0	126.5
Paperboard containers and boxes	265	209.7	13.3	13.2	6.2	6.3	7.1	6.9	120.5	133.7
Setup paperboard boxes	2652	n.a.	11.1	13.6	4.9	6.6	6.2	7.1	121.0	144.0
Corrugated and solid fiber boxes	2653	118.0	14.5	13.2	6.7	6.2	7.9	7.0	123.4	136.8
Fiber cans, drums and similar products	2655	n.a.	10.8	12.0	5.7	5.8	5.1	6.2	111.1	112.1
Sanitary food containers	2656	14.6	11.1	12.1	4.7	6.4	6.4	5.7	86.9	142.8
Folding paperboard boxes	2657	51.1	12.4	14.1	6.0	6.8	6.3	7.3	126.1	129.3
Miscellaneous converted paper products	267	241.4	12.7	13.0	6.5	6.5	6.2	6.5	119.9	131.9
Paper coated and laminated, packaging	2671	n.a.	15.2	13.4	9.5	6.6	5.7	6.8	158.0	115.1
Bags: plastics, laminated, and coated	2673	33.3	13.0	12.1	6.3	5.7	6.7	6.5	111.9	113.7
Bags: uncoated paper and multiwall	2674	n.a.	17.3	16.4	8.4	8.4	8.9	8.0	178.7	177.2
Die-cut paper and board	2675	17.9	9.3	12.7	4.6	6.3	4.7	6.5	74.0	108.3
Sanitary paper products	2676	n.a.	8.8	13.1	4.3	6.8	4.5	6.3	81.7	150.5
Envelopes	2677	27.4	13.5	12.9	7.0	6.6	6.5	6.3	148.7	148.2
Stationery products	2678	n.a.	13.9	15.5	7.6	7.5	6.3	8.0	136.0	134.1
Converted paper products, n.e.c.	2679	n.a.	17.2	13.6	8.7	7.3	8.6	6.2	147.2	136.4
Printing and publishing	27	1,583.9	6.6	6.9	3.2	3.3	3.4	3.6	59.7	63.8
Newspapers	271	472.7	6.2	7.2	3.1	3.4	3.2	3.8	61.4	72.3
Periodicals	272	128.6	3.2	3.2	1.8	1.7	1.4	1.4	34.6	39.4
Books	273	120.1	5.3	6.5	2.8	3.1	2.6	3.4	41.5	55.5
Book publishing	2731	85.0	3.3	4.5	1.5	2.4	1.8	2.1	23.7	39.3
Book printing	2732	35.1	10.2	11.0	5.4	4.8	4.7	6.2	86.4	92.8
Miscellaneous publishing	274	82.2	3.8	3.9	2.0	1.9	1.8	2.0	43.3	30.9
Commercial printing	275	546.4	8.0	7.9	3.7	3.7	4.3	4.2	65.7	66.7
Commercial printing, lithographic	2752	380.5	8.1	7.5	3.7	3.5	4.4	4.0	64.0	61.0
Commercial printing, gravure	2754	n.a.	12.3	10.6	5.1	5.2	7.3	5.3	91.8	96.9
Commercial printing, n.e.c.	2759	170.4	7.4	8.5	3.6	4.0	3.8	4.4	67.0	82.5
Manifold business forms	276	50.0	10.0	9.8	4.8	4.2	5.3	5.6	95.6	73.6
Greeting cards	277	n.a.	8.1	7.0	3.7	3.2	4.4	3.8	96.2	74.2
Blankbooks and bookbinding	278	75.5	9.0	9.6	4.8	5.0	4.3	4.7	91.6	86.9
Blankbooks and looseleaf binders	2782	n.a.	8.3	8.8	4.2	4.7	4.2	4.1	80.8	76.5
Bookbinding and related work	2789	n.a.	10.1	11.1	5.7	5.4	4.4	5.6	108.7	109.8
Printing trade services	279	64.1	2.1	2.5	.8	1.1	1.3	1.4	13.9	-

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Typesetting	2791	n.a.	1.6	2.2	0.6	1.1	1.0	1.1	10.0	21.3
Platemaking services	2796	n.a.	2.7	3.0	1.0	1.2	1.6	1.8	19.1	-
Chemicals and allied products	28	1,073.8	7.0	7.0	3.2	3.2	3.7	3.7	58.7	63.4
Industrial inorganic chemicals	281	132.6	5.9	5.9	2.7	2.6	3.2	3.2	60.1	54.8
Alkalies and chlorine	2812	n.a.	8.3	7.2	3.4	2.7	4.9	4.5	109.0	39.0
Industrial gases	2813	n.a.	5.6	3.7	2.5	2.0	3.0	1.6	65.7	46.0
Inorganic pigments	2816	n.a.	8.5	7.3	4.8	3.7	3.7	3.6	98.4	86.8
Industrial inorganic chemicals, n.e.c.	2819	89.4	5.4	6.1	2.4	2.6	3.0	3.4	48.8	55.4
Plastics materials and synthetics	282	183.6	5.8	6.3	2.6	2.9	3.3	3.4	52.9	62.2
Plastics materials and resins	2821	88.5	7.0	7.5	3.3	3.5	3.7	4.0	60.1	77.6
Synthetic rubber	2822	n.a.	7.4	8.2	2.9	4.0	4.5	4.1	68.3	74.4
Organic fibers, noncellulosic	2824	68.0	3.7	3.4	1.5	1.4	2.3	2.0	36.4	29.4
Drugs	283	232.6	5.3	5.8	2.5	2.9	2.8	2.9	44.3	55.0
Medicinals and botanicals	2833	n.a.	6.2	5.8	2.8	2.6	3.4	3.2	39.9	55.1
Pharmaceutical preparations	2834	193.3	5.2	5.7	2.4	2.9	2.8	2.8	43.2	54.5
Diagnostic substances	2835	n.a.	5.6	8.3	3.5	3.3	2.1	5.0	63.0	55.2
Biological products except diagnostic	2836	n.a.	5.5	5.9	2.5	3.2	3.0	2.8	54.1	63.7
Soap, cleaners, and toilet goods	284	160.0	8.5	8.5	4.1	4.0	4.4	4.5	67.2	72.4
Polishes and sanitation goods	2842	n.a.	10.5	10.5	4.8	4.4	5.7	6.1	67.5	73.7
Surface active agents	2843	43.6	10.2	8.1	3.9	3.7	6.3	4.4	60.4	71.9
Toilet preparations	2844	73.1	8.0	8.2	4.1	3.9	3.9	4.4	72.1	70.8
Paints and allied products	285	62.8	10.6	10.4	4.9	5.0	5.7	5.4	70.0	85.3
Industrial organic chemicals	286	149.6	6.3	6.1	2.6	2.5	3.7	3.6	48.9	55.1
Gum and wood chemicals	2861	n.a.	9.9	8.7	5.8	4.2	4.2	4.5	88.7	97.7
Cyclic crudes and intermediates	2865	28.5	7.2	6.4	3.8	3.1	3.4	3.3	56.2	51.7
Industrial organic chemicals, n.e.c.	2869	116.5	5.9	5.9	2.2	2.3	3.7	3.6	45.7	54.2
Agricultural chemicals	287	52.8	9.3	7.8	4.5	3.5	4.8	4.3	73.5	63.3
Nitrogenous fertilizers	2873	n.a.	9.8	9.0	3.9	3.0	5.9	5.9	65.0	42.9
Phosphatic fertilizers	2874	n.a.	-	7.7	-	4.2	-	3.5	-	85.7
Fertilizers, mixing only	2875	n.a.	14.1	10.3	6.1	4.9	8.0	5.4	116.2	97.2
Agricultural chemicals, n.e.c.	2879	n.a.	6.9	6.0	3.3	2.6	3.6	3.4	54.7	43.5
Miscellaneous chemical products	289	99.7	9.6	8.7	4.9	4.1	4.7	4.5	87.4	82.8
Adhesives and sealants	2891	n.a.	11.9	10.0	6.0	4.6	5.9	5.5	103.6	65.9
Explosives	2892	n.a.	-	7.1	-	3.1	-	4.0	-	88.3
Printing ink	2893	n.a.	9.2	8.5	4.7	4.4	4.6	4.0	62.6	131.9
Chemical preparations, n.e.c.	2899	n.a.	9.2	8.7	5.1	4.2	4.1	4.5	94.5	78.3
Petroleum and coal products	29	156.9	7.0	6.6	3.2	3.3	3.8	3.3	68.4	68.1
Petroleum refining	291	118.1	5.8	5.3	2.7	2.6	3.1	2.7	59.0	58.6
Asphalt paving and roofing materials	295	27.1	10.1	10.2	4.7	5.1	5.4	5.1	95.4	108.7
Asphalt paving mixtures and blocks	2951	n.a.	10.5	11.2	4.4	5.0	6.0	6.2	75.7	99.4
Asphalt felts and coatings	2952	n.a.	9.8	9.2	5.0	5.1	4.8	4.1	112.7	116.9
Miscellaneous petroleum and coal products	299	n.a.	12.3	11.3	5.4	5.5	6.9	5.8	104.0	88.6
Lubricating oils and greases	2992	n.a.	10.9	9.9	5.3	5.3	5.6	4.5	97.1	77.7
Rubber and miscellaneous plastics products	30	883.6	16.2	16.2	8.0	8.0	8.1	8.2	140.7	147.2
Tires and inner tubes	301	84.7	15.0	15.4	8.3	9.2	6.6	6.2	166.1	170.4
Rubber and plastics footwear	302	11.1	15.6	16.8	7.6	8.2	8.1	8.7	126.4	157.4
Hose and belting and gaskets and packing	305	59.4	13.6	13.8	6.3	6.4	7.3	7.4	114.9	110.1
Rubber and plastics hose and belting	3052	26.0	14.5	15.0	7.0	7.7	7.4	7.3	145.2	121.9
Gaskets, packing and sealing devices	3053	n.a.	12.9	12.7	5.6	5.3	7.2	7.4	90.7	100.7
Fabricated rubber products, n.e.c.	306	109.1	17.8	17.1	9.6	8.6	8.2	8.5	175.8	150.4
Mechanical rubber goods	3061	n.a.	19.2	18.6	11.1	9.7	8.0	8.9	208.9	169.1
Fabricated rubber products, n.e.c.	3069	n.a.	16.5	15.8	8.1	7.6	8.3	8.2	145.2	134.9

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Miscellaneous plastics products, n.e.c.	308	619.3	16.3	16.4	7.9	7.9	8.4	8.5	133.6	146.8
Unsupported plastics film and sheet	3081	n.a.	13.6	13.0	6.8	6.2	6.8	6.9	100.0	107.4
Unsupported plastics profile shapes	3082	n.a.	-	16.3	-	7.7	-	8.6	-	152.4
Laminated plastics plate and sheet	3083	n.a.	13.7	13.9	5.2	6.8	8.5	7.0	77.4	110.5
Plastics pipe	3084	n.a.	-	16.3	-	8.7	-	7.6	-	148.4
Plastics bottles	3085	n.a.	14.7	16.1	8.8	8.6	5.8	7.5	157.3	149.8
Plastics foam products	3086	n.a.	16.6	16.9	8.1	7.8	8.4	9.3	105.8	147.4
Custom compound purchased resins	3087	n.a.	-	16.3	-	8.6	-	7.8	-	135.3
Plastics plumbing fixtures	3088	n.a.	-	17.7	-	9.7	-	7.9	-	144.8
Plastics products, n.e.c.	3089	n.a.	16.9	17.0	8.0	8.1	8.9	9.0	144.4	154.8
Leather and leather products	31	136.2	11.4	13.6	5.6	6.5	5.8	7.1	128.2	130.4
Leather tanning and finishing	311	14.8	21.1	25.0	11.7	13.9	9.4	11.0	212.6	290.0
Footwear cut stock	313	n.a.	16.5	14.3	9.5	7.9	7.0	6.4	224.3	151.0
Footwear, except rubber	314	78.6	10.4	13.3	5.2	6.0	5.2	7.3	128.8	117.4
House slippers	3142	n.a.	11.4	9.7	5.9	5.0	5.5	4.7	115.7	101.4
Men's footwear, except athletic	3143	33.8	11.7	15.4	5.8	7.0	5.9	8.4	128.1	128.2
Women's footwear, except athletic	3144	27.3	7.7	11.8	3.7	5.0	4.0	6.8	112.3	93.3
Footwear, except rubber, n.e.c.	3149	n.a.	12.3	12.0	6.2	6.0	6.1	6.0	178.5	151.2
Luggage	316	n.a.	11.6	10.3	4.8	5.1	7.0	5.3	104.1	96.8
Handbags and personal leather goods	317	15.9	7.5	7.8	3.3	3.3	4.3	4.3	76.5	61.2
Personal leather goods, n.e.c.	3172	n.a.	10.3	8.7	5.1	4.6	5.1	4.1	104.7	78.4
Transportation and public utilities [8]		5,648.0	8.9	9.2	5.1	5.3	3.8	3.9	118.8	121.5
Railroad transportation [7]	40	294.0	6.9	7.7	4.9	5.8	2.0	1.9	85.4	153.3
Local and interurban passenger transit	41	328.3	9.0	9.6	5.3	5.5	3.7	4.1	140.3	125.3
Local and suburban transportation	411	127.1	11.1	12.0	6.6	7.2	4.5	4.8	167.5	143.2
Taxicabs	412	33.7	4.8	4.9	2.8	3.0	2.0	1.9	55.6	77.9
School buses	415	110.9	6.9	9.0	3.6	4.3	3.3	4.7	85.8	88.9
Trucking and warehousing	42	1,605.6	13.9	13.5	8.0	7.9	5.8	5.6	212.2	206.0
Trucking and courier services, except air	421	1,486.4	13.9	13.4	8.1	7.9	5.8	5.5	218.6	210.0
Public warehousing and storage	422	115.5	13.2	15.1	7.1	8.0	6.1	7.2	128.7	137.6
Water transportation	44	172.6	12.1	12.1	7.4	7.3	4.6	4.8	297.8	263.1
Water transportation of freight, n.e.c.	444	14.0	-	10.0	-	6.4	-	3.6	-	167.1
Water transportation services	449	112.0	14.5	14.7	9.3	9.1	5.2	5.6	403.2	343.3
Transportation by air	45	696.6	13.0	14.2	7.6	8.2	5.4	5.9	130.4	138.2
Air transportation, scheduled	451	575.8	13.3	14.5	8.0	8.5	5.3	6.0	137.4	142.3
Air transportation, nonscheduled	452	n.a.	5.4	7.3	2.1	3.1	3.3	4.1	32.0	57.4
Airports, flying fields, and services	458	95.5	12.7	13.9	6.7	8.1	6.0	5.8	110.0	135.2
Pipelines, except natural gas	46	18.9	3.6	3.5	1.4	1.2	2.2	2.4	32.9	28.5
Transportation services	47	333.7	4.2	4.3	2.3	2.4	1.9	1.9	51.2	47.9
Freight transportation arrangement	473	125.5	-	5.6	-	3.2	-	2.4	-	64.6
Communications	48	1,264.8	3.0	3.1	1.6	1.7	1.4	1.4	30.5	33.2
Telephone communications	481	876.9	2.1	2.2	1.2	1.3	.9	.9	26.0	30.8
Telegraph and other communications	482	n.a.	-	1.5	-	.8	-	.8	-	14.1
Radio and television broadcasting	483	231.9	2.1	2.2	.8	.7	1.3	1.4	11.3	8.7
Cable and other pay tv services	484	118.3	10.9	12.0	5.5	6.3	5.4	5.7	94.4	98.2
Communication services, n.e.c.	489	n.a.	-	3.0	-	1.7	-	1.3	-	32.6
Electric, gas, and sanitary services	49	933.9	7.8	8.0	3.9	4.0	3.9	3.9	72.5	73.0
Electric services	491	443.9	6.2	6.0	2.8	2.6	3.5	3.4	52.1	51.0
Gas production and distribution	492	164.4	7.4	7.2	3.9	3.5	3.5	3.7	67.5	53.8
Combination utility services	493	192.1	5.7	6.7	3.1	3.8	2.6	2.9	69.5	71.0
Water supply	494	n.a.	10.7	10.6	5.5	5.9	5.2	4.7	88.7	81.3
Sanitary services	495	104.5	19.1	18.7	10.1	10.6	9.0	8.1	177.9	192.6
Irrigation systems	497	n.a.	11.5	16.9	6.4	7.5	5.1	9.4	108.9	69.0

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Wholesale and retail trade		25,851.0	7.8	8.0	3.5	3.6	4.3	4.4	60.9	63.5
Wholesale trade		6,271.0	7.6	7.7	3.8	4.0	3.8	3.8	69.4	71.9
Wholesale trade durable goods	50	3,717.0	6.7	6.7	3.2	3.3	3.5	3.4	57.8	55.8
Motor vehicles, parts, and supplies	501	453.1	8.2	8.8	3.7	4.3	4.4	4.5	59.0	72.3
Furniture and homefurnishings	502	155.8	5.8	6.0	2.4	2.9	3.4	3.1	48.3	40.8
Lumber and construction materials	503	235.5	11.7	11.5	6.0	6.1	5.7	5.4	98.4	114.1
Professional and commercial equipment	504	791.7	3.6	2.7	2.0	1.4	1.6	1.3	52.2	22.3
Metals and minerals, except petroleum	505	145.4	13.2	14.6	5.9	6.7	7.3	7.8	111.7	116.6
Electrical goods	506	523.0	3.3	4.3	1.5	2.2	1.8	2.1	28.4	37.1
Hardware, plumbing and heating equipment	507	287.4	6.2	5.6	2.9	2.5	3.3	3.1	45.4	33.5
Machinery, equipment, and supplies	508	830.0	7.4	7.7	3.4	3.6	4.0	4.1	51.7	55.3
Miscellaneous durable goods	509	305.4	10.1	9.7	5.2	5.0	4.8	4.7	99.5	108.2
Wholesale trade nondurable goods	51	2,554.0	9.1	9.3	4.8	5.0	4.3	4.3	86.7	89.3
Paper and paper products	511	229.9	6.1	6.8	3.2	3.8	2.9	3.0	50.6	78.5
Drugs, proprietaries, and sundries	512	185.8	7.4	8.1	3.7	3.6	3.8	4.6	63.4	75.0
Groceries and related products	514	840.2	12.7	13.3	7.1	7.5	5.7	5.8	132.6	140.1
Farm-product raw materials	515	n.a.	8.4	9.0	3.6	4.1	4.8	4.9	59.3	75.1
Petroleum and petroleum products	517	211.9	5.7	5.1	2.9	2.6	2.8	2.6	67.9	53.4
Beer, wine, and distilled beverages	518	149.7	13.7	13.6	7.6	7.9	6.1	5.7	144.7	172.1
Miscellaneous nondurable goods	519	476.0	7.6	7.8	3.7	3.8	3.9	4.0	62.8	74.4
Retail trade		19,580.0	7.9	8.1	3.4	3.4	4.6	4.6	57.4	60.0
Building materials and garden supplies	52	780.9	10.6	9.8	5.0	4.8	5.6	5.0	82.7	78.1
Lumber and other building materials	521	444.0	13.5	12.6	6.5	6.1	7.0	6.5	104.5	97.1
Paint, glass, and wallpaper stores	523	n.a.	7.7	6.5	2.9	3.0	4.7	3.5	38.4	68.1
Hardware stores	525	163.6	5.7	5.4	2.5	2.7	3.2	2.7	50.7	41.8
Retail nurseries and garden stores	526	n.a.	7.2	6.5	3.2	3.2	3.9	3.3	39.9	56.8
General merchandise stores	53	2,535.4	9.9	10.7	4.5	5.0	5.4	5.7	70.8	82.6
Department stores	531	2,094.2	10.5	10.9	5.0	5.0	5.5	5.9	78.3	84.7
Variety stores	533	223.9	7.8	10.4	3.3	4.4	4.4	6.0	51.3	70.0
Miscellaneous general merchandise stores	539	217.3	6.8	10.1	2.0	6.1	4.8	4.1	30.4	75.8
Food stores	54	3,180.2	11.3	11.6	4.7	4.9	6.5	6.7	91.2	102.5
Grocery stores	541	2,829.4	12.2	12.6	5.1	5.3	7.1	7.3	99.0	108.7
Automotive dealers and service stations	55	2,108.0	6.7	6.9	2.7	2.7	4.0	4.1	45.9	50.[illegible]
New and used car dealers	551	959.2	7.8	7.9	2.8	2.8	5.0	5.1	41.4	45.[illegible]
Auto and home supply stores	553	343.8	8.3	8.6	3.8	4.3	4.6	4.2	63.1	90.9
Gasoline service stations	554	639.2	4.7	4.4	2.3	1.9	2.4	2.5	39.9	32.8
Boat dealers	555	n.a.	-	9.2	-	4.6	-	4.6	-	109.1
Recreational vehicle dealers	556	n.a.	-	13.4	-	5.6	-	7.8	-	101.4
Apparel and accessory stores	56	1,191.7	2.5	3.0	1.2	1.3	1.4	1.7	28.2	21.7
Women's clothing stores	562	419.9	2.2	2.5	1.0	1.0	1.2	1.5	24.9	13.3
Family clothing stores	565	282.6	4.5	5.4	2.0	2.5	2.5	2.9	31.5	47.1
Shoe stores	566	226.6	1.9	2.2	.8	.9	1.1	1.2	29.4	-
Furniture and homefurnishings stores	57	833.7	4.9	4.7	2.3	2.4	2.6	2.3	43.4	40.3
Furniture and homefurnishings stores	571	472.6	5.8	5.9	2.7	3.1	3.1	2.8	45.3	52.3
Household appliance stores	572	86.8	5.7	6.4	2.8	3.3	2.9	3.1	79.8	58.1
Radio, television, and computer stores	573	274.3	3.0	2.2	1.3	.9	1.7	1.3	28.7	14.5
Eating and drinking places	58	6,449.4	8.8	8.5	3.5	3.2	5.3	5.3	54.1	49.4
Miscellaneous retail	59	2,479.4	3.9	4.2	1.7	1.9	2.2	2.3	32.8	37.5
Drug stores and proprietary stores	591	606.9	3.9	3.9	1.5	1.4	2.4	2.5	34.6	30.7
Miscellaneous shopping goods stores	594	880.6	2.8	3.6	1.2	1.4	1.6	2.2	21.0	22.8
Nonstore retailers	596	287.4	7.1	9.3	3.9	5.1	3.2	4.0	69.0	95.7

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1987 [1] and 1988—Continued

Industry [2]	SIC code [3]	1988 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1987	1988	1987	1988	1987	1988	1987	1988
Finance, insurance, and real estate		6,724.0	2.0	2.0	0.9	0.9	1.1	1.1	17.3	17.8
Depository institutions	60	2,287.1	1.5	1.4	.6	.5	.9	.9	10.5	12.2
Commercial banks	602	1,552.7	1.5	1.4	.6	.5	.9	.9	8.8	8.8
Savings institutions	603	480.0	1.6	1.7	.7	.7	.9	1.0	11.8	23.1
Insurance carriers	63	1,440.8	1.7	1.7	.8	.7	1.0	1.0	14.0	14.0
Life insurance	631	557.4	1.5	1.5	.6	.6	.9	.9	13.4	12.3
Medical service and health insurance	632	720.0	1.9	2.3	.8	.9	1.1	1.4	16.4	19.8
Fire, marine, and casualty insurance	633	840.0	2.1	2.0	.9	.7	1.1	1.3	15.7	15.2
Pension, health, and welfare funds	637	n.a.	-	.4	-	.1	-	.3	-	1.7
Insurance agents, brokers, and service	64	684.0	.9	1.0	.5	.5	.4	.5	7.7	10.3
Real estate	65	1,313.5	4.6	4.8	2.3	2.5	2.3	2.3	43.8	45.2
Real estate operators and lessors	651	550.2	5.8	6.2	2.8	3.4	3.0	2.8	47.9	64.4
Real estate agents and managers	653	573.8	3.4	3.3	1.6	1.6	1.8	1.7	30.1	28.8
Subdividers and developers	655	158.6	6.4	6.3	3.7	3.0	2.8	3.3	53.2	48.5
Holding and other investment offices	67	224.7	2.7	1.8	1.3	.8	1.4	1.0	40.7	15.5
Holding offices	671	n.a.	3.3	2.4	1.6	1.0	1.8	1.4	50.7	22.5
Services		25,422.0	5.4	5.5	2.6	2.7	2.8	2.8	48.0	51.2
Hotels and other lodging places	70	1,600.8	10.4	10.8	4.6	4.7	5.8	6.1	80.8	80.3
Hotels and motels	701	1,540.1	10.5	11.0	4.7	4.7	5.8	6.2	82.7	82.1
Personal services	72	1,082.5	3.4	3.6	1.7	1.9	1.7	1.7	31.4	42.8
Laundry, cleaning, and garment services	721	418.8	6.5	6.5	3.3	3.4	3.2	3.1	58.2	77.4
Miscellaneous personal services	729	123.0	-	1.9	-	1.0	-	.9	-	25.5
Business services	73	4,080.8	4.7	4.7	2.3	2.4	2.4	2.3	43.7	48.3
Services to buildings	734	755.9	7.0	8.0	3.7	4.2	3.3	3.8	70.7	83.6
Personnel supply services	736	1,420.1	8.2	7.3	3.8	3.5	4.3	3.8	69.2	58.7
Miscellaneous business services	738	1,103.3	4.2	4.7	1.9	2.4	2.3	2.3	41.9	53.0
Auto repair, services, and parking	75	888.7	6.6	6.7	3.2	3.0	3.4	3.7	61.2	61.1
Automotive rentals, no drivers	751	170.0	8.0	9.4	3.9	3.9	4.1	5.5	62.7	95.2
Automobile parking	752	n.a.	4.0	4.4	2.2	2.1	1.8	2.3	32.7	43.8
Automotive repair shops	753	503.4	6.6	6.0	3.1	2.7	3.5	3.3	59.2	54.1
Automotive services, except repair	754	n.a.	5.9	6.7	3.1	3.8	2.9	2.9	52.7	64.4
Miscellaneous repair services	76	374.8	8.1	8.6	4.0	4.4	4.1	4.2	62.9	73.8
Electrical repair shops	762	117.9	5.7	5.7	2.9	2.8	2.7	2.9	76.7	52.4
Miscellaneous repair shops	769	n.a.	10.1	10.7	4.9	5.6	5.1	5.1	85.4	80.1
Amusement and recreation services	79	1,048.8	8.4	8.7	3.8	4.0	4.6	4.7	57.0	71.5
Bowling centers	793	n.a.	6.2	4.1	2.4	1.6	3.8	2.5	48.8	29.8
Miscellaneous amusement, recreation services	799	710.0	8.4	8.9	3.9	4.2	4.5	4.7	53.5	74.0
Health services	80	7,580.7	7.3	7.3	3.7	3.8	3.6	3.5	69.7	76.7
Offices of osteopathic physicians	803	n.a.	-	(7)	-	(7)	-	(7)	-	(7)
Nursing and personal care facilities	805	1,289.7	15.0	15.5	8.7	8.8	6.2	6.6	160.6	161.8
Hospitals	806	3,472.3	8.7	8.5	4.0	4.2	4.7	4.2	70.0	76.7
Legal services	81	882.0	.6	.5	.3	.2	.3	.3	4.8	5.8
Educational services	82	1,873.3	3.8	3.5	1.6	1.5	2.1	2.0	28.9	28.8
Elementary and secondary schools	821	447.5	3.8	3.3	1.8	1.6	1.9	1.7	28.5	30.8
Colleges and universities	822	1,080.8	4.2	4.2	1.8	1.7	2.4	2.4	30.4	28.5
Libraries	823	n.a.	-	3.5	-	1.5	-	2.0	-	25.3
Social services	83	1,713.4	5.2	5.7	2.6	2.8	2.6	2.9	44.8	48.5
Individual and family services	832	433.9	3.8	4.1	1.8	2.1	2.0	2.0	40.2	40.8
Job training and related services	833	342.2	8.7	9.1	4.4	4.3	4.2	4.8	67.9	55.4
Child day care services	835	n.a.	1.8	2.0	1.0	1.3	.9	.8	18.7	18.4
Residential care	836	427.2	8.5	9.2	4.4	4.3	4.1	4.9	64.8	79.7
Social services, n.e.c.	839	n.a.	-	3.9	-	1.8	-	2.1	-	28.4

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	1989 annual average employment (thousands) [4]	Incidence rates per 100 full-time workers [5]							
			Total cases [6]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1988	1989	1988	1989	1988	1989	1988	1989
Museums, botanical, zoological gardens	84	61.9	6.9	6.2	3.1	3.0	3.9	3.3	42.2	51.2
Museums and art galleries	841	n.a.	4.7	4.4	2.1	2.2	2.7	2.2	32.1	43.8
Botanical and zoological gardens	842	n.a.	13.9	13.1	6.3	5.8	7.6	7.3	74.0	80.7
Engineering and management services	87	2,302.6	2.1	1.9	.9	.9	1.2	1.0	16.7	13.2
Engineering and architectural services	871	772.9	2.4	2.2	1.0	1.0	1.3	1.3	20.8	13.0
Accounting, auditing, and bookkeeping	872	520.1	.5	.4	.2	.2	.3	.2	6.0	2.8
Research and testing services	873	523.6	2.7	3.2	1.1	1.5	1.7	1.8	19.4	23.9

[1] The data in this table are based on the *Standard Industrial Classification Manual*, 1987 Edition; thus, they may differ from 1988 data previously published which were based on the *Standard Industrial Classification Manual*, 1972 Edition, 1977 Supplement.

[2] Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

[4] Employment is expressed as an annual average and is derived primarily from the BLS-State Current Employment Statistics program. Annual average employment for the agriculture, forestry, and fishing division is a composite of employment data for agricultural production (SIC's 01 and 02) as obtained from the Annual Survey of Occupational Injuries and Illnesses and employment data for agricultural services (SIC 07); forestry (SIC 08); and fishing, hunting, and trapping (SIC 09) as obtained from State unemployment insurance programs.

[5] Incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where:

N = number of injuries and illnesses or lost workdays.

EH = total hours worked by all employees during the calendar year.

200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

[6] Includes fatalities. Because of rounding, the difference between the total and the sum of the rates for lost workday cases and nonfatal cases without lost workdays may not reflect the fatality rate.

[7] Excludes farms with fewer than 11 employees.

[8] Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

[9] Incidence rate less than 0.05.

n.a. = data not available.
n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 2. Number of occupational injuries and illnesses, and lost workdays by industry division, 1988 [1] and 1989
(In thousands)

Industry division	Total cases [2]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
	1988	1989	1988	1989	1988	1989	1988	1989
Injuries and illnesses								
Private sector [3]	6,440.4	6,576.3	2,977.8	3,073.9	3,458.7	3,497.9	56,996.1	60,123.7
Agriculture, forestry, and fishing [3]	101.9	102.3	52.7	53.3	49.0	48.8	952.1	946.4
Mining [4]	64.4	60.6	37.7	34.5	26.3	26.0	1,113.2	976.4
Construction	655.2	646.5	307.2	304.8	346.9	340.6	6,381.4	6,464.2
Manufacturing	2,463.9	2,465.5	1,079.6	1,093.7	1,383.6	1,371.1	20,264.8	21,311.3
Durable goods	1,597.1	1,581.6	669.5	673.4	927.2	907.8	12,520.6	13,081.2
Nondurable goods	866.8	883.8	410.1	420.2	456.4	463.3	7,744.2	8,230.1
Transportation and public utilities [4]	464.8	481.0	264.5	277.3	199.3	203.0	6,170.5	6,341.4
Wholesale and retail trade	1,533.4	1,603.3	683.4	719.2	849.4	883.3	11,914.2	12,767.4
Wholesale trade	434.2	455.8	217.6	233.3	216.4	222.4	3,941.5	4,232.8
Retail trade	1,099.1	1,147.4	465.7	485.9	633.1	660.9	7,972.7	8,534.6
Finance, insurance, and real estate	119.5	118.6	55.6	54.5	63.8	63.8	1,024.6	1,055.0
Services	1,037.6	1,098.5	497.1	536.6	540.3	561.4	9,175.2	10,261.6
Injuries								
Private sector [3]	6,199.6	6,292.5	2,880.4	2,955.5	3,315.6	3,333.0	54,339.7	56,704.9
Agriculture, forestry, and fishing [3]	97.3	98.0	51.3	52.2	45.8	45.6	933.2	932.6
Mining [4]	62.5	58.6	37.1	33.9	25.0	24.6	1,100.3	958.4
Construction	648.3	638.8	304.4	301.2	343.0	336.6	6,338.4	6,386.0
Manufacturing	2,287.2	2,261.0	1,007.3	1,007.4	1,279.2	1,253.0	18,194.5	18,627.5
Durable goods	1,479.5	1,453.5	625.0	623.7	854.0	829.5	11,203.5	11,509.6
Nondurable goods	807.8	807.5	382.3	383.7	425.2	423.5	6,991.0	7,117.9
Transportation and public utilities [4]	455.6	472.6	261.3	273.9	193.6	198.1	6,103.2	6,266.6
Wholesale and retail trade	1,518.1	1,583.6	676.3	710.9	841.2	871.6	11,689.2	12,550.9
Wholesale trade	427.8	447.0	214.7	230.3	212.6	216.6	3,882.5	4,161.4
Retail trade	1,090.3	1,136.5	461.6	480.6	629.4	655.2	7,806.6	8,389.5
Finance, insurance, and real estate	116.3	115.0	54.0	52.6	62.3	62.1	970.4	986.3
Services	1,014.2	1,064.9	488.6	523.4	525.4	541.1	9,010.5	9,994.7
Illnesses								
Private sector [3]	240.8	283.7	97.4	118.4	143.1	164.9	2,656.4	3,418.8
Agriculture, forestry, and fishing [3]	4.6	4.3	1.4	1.1	3.2	3.2	18.9	13.9
Mining [4]	1.9	2.0	.6	.6	1.3	1.4	12.8	18.0
Construction	6.9	7.7	2.8	3.6	4.0	3.9	43.0	78.2
Manufacturing	176.6	204.5	72.2	86.3	104.3	118.1	2,070.2	2,683.7
Durable goods	117.7	128.1	44.4	49.8	73.2	78.3	1,317.1	1,571.6
Nondurable goods	59.0	76.3	27.8	36.5	31.1	39.8	753.1	1,112.2
Transportation and public utilities [4]	9.0	8.4	3.2	3.4	5.7	4.9	67.4	74.8
Wholesale and retail trade	15.2	19.7	7.1	8.2	8.2	11.4	225.1	216.5
Wholesale trade	6.5	8.8	3.0	3.0	3.5	5.8	59.0	71.4
Retail trade	8.8	10.9	4.1	5.2	4.7	5.6	166.1	145.1
Finance, insurance, and real estate	3.1	3.7	1.6	2.0	1.5	1.7	54.2	68.7
Services	23.5	33.6	8.5	13.2	14.9	20.3	164.7	266.9

[1] The data in this table are based on the *Standard Industrial Classification Manual*, 1987 Edition; thus, they may differ from the 1988 data previously published which were based on the *Standard Industrial Classification Manual*, 1972 Edition, 1977 Supplement.

[2] Includes fatalities.

[3] Excludes farms with fewer than 11 employees.

[4] Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals. The difference between the number of total cases and the sum of the lost workday cases and nonfatal cases without lost workdays may not equal the fatality estimate.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Private sector[6]		8.3	8.2	3.8	3.9	4.4	4.4	72.6	74.2
Agriculture, forestry, and fishing[6]		10.4	10.4	5.5	5.6	4.9	4.9	99.8	99.4
Agricultural production[6]	01-02	11.7	11.7	6.1	6.0	5.6	5.7	107.8	99.8
Agricultural services	07	9.2	9.4	5.0	5.2	4.2	4.2	90.6	98.9
Forestry	08	11.9	10.5	6.3	5.4	5.5	5.1	136.0	129.1
Mining[7]		8.5	8.2	5.1	4.8	3.4	3.5	150.3	134.7
Metal mining[7]	10	8.3	8.1	4.7	4.5	3.5	3.6	144.5	126.3
Coal mining[7]	12	11.2	11.0	8.4	8.2	2.8	2.7	238.8	251.4
Oil and gas extraction	13	8.1	7.5	4.3	3.7	3.8	3.8	140.7	109.7
Crude petroleum and natural gas	131	2.9	3.3	1.3	1.5	1.6	1.7	35.8	41.1
Natural gas liquids	132	3.4	3.8	1.4	1.1	2.1	2.8	50.3	28.8
Oil and gas field services	138	13.0	11.8	7.0	6.0	5.8	5.9	237.5	181.2
Nonmetallic minerals, except fuels[7]	14	7.0	7.6	4.0	4.3	2.9	3.3	88.5	88.4
Construction		14.4	14.2	6.8	6.7	7.6	7.5	141.1	141.6
General building contractors	15	13.9	13.7	6.4	6.4	7.5	7.3	131.3	134.9
Residential building construction	152	11.2	11.2	5.8	6.0	5.4	5.2	116.1	128.0
Operative builders	153	8.8	8.2	3.8	3.5	5.0	4.6	53.6	64.0
Nonresidential building construction	154	17.4	16.7	7.3	7.1	10.1	9.6	155.3	147.0
Heavy construction, except building	16	14.9	13.6	6.9	6.4	8.0	7.1	162.3	145.9
Highway and street construction	161	15.0	14.0	6.7	6.4	8.3	7.5	173.1	137.5
Heavy construction, except highway	162	14.9	13.5	7.0	6.5	7.8	7.0	157.6	149.5
Special trade contractors	17	14.6	14.5	6.9	6.8	7.6	7.6	139.8	143.3
Plumbing, heating, air-conditioning	171	14.8	15.5	6.2	6.2	8.6	9.3	104.4	115.4
Painting and paper hanging	172	9.3	9.1	5.2	4.8	4.1	4.3	148.3	130.1
Electrical work	173	13.2	13.0	5.4	5.3	7.8	7.8	105.9	104.7
Masonry, stonework, and plastering	174	16.9	15.8	8.5	8.2	8.3	7.6	183.4	177.3
Carpentry and floor work	175	13.1	12.9	7.0	7.0	6.1	5.8	138.2	131.1
Roofing, siding, and sheet metal work	176	19.5	18.1	11.0	9.9	8.5	8.2	238.5	245.7
Concrete work	177	12.9	12.3	6.9	6.9	6.0	5.4	138.1	151.4
Water well drilling	178	12.6	12.8	6.9	7.5	5.7	5.3	185.5	162.9
Miscellaneous special trade contractors	179	14.6	15.5	7.1	7.6	7.5	7.9	144.8	158.1
Manufacturing		12.1	12.0	5.3	5.3	6.8	6.6	96.4	98.7
Durable goods		13.1	12.9	5.6	5.6	7.6	7.4	99.5	102.5
Lumber and wood products	24	19.0	17.9	9.8	9.1	9.2	8.8	181.4	170.5
Logging	241	19.6	19.2	12.7	11.6	6.8	7.5	345.4	306.0
Sawmills and planing mills	242	19.5	17.8	10.0	9.2	9.4	8.6	187.2	179.2
Sawmills and planing mills, general	2421	19.9	17.9	10.2	9.3	9.7	8.6	195.3	187.3
Hardwood dimension and flooring mills	2426	16.5	16.4	8.5	8.1	8.1	8.3	133.5	128.1
Special product sawmills, n.e.c.	2429	30.2	25.4	17.9	16.5	12.4	8.9	363.5	327.8
Millwork, plywood and structural members	243	17.8	17.1	8.9	8.5	8.9	8.6	148.8	142.8
Millwork	2431	19.6	17.3	10.0	8.8	9.6	8.5	168.7	148.2
Wood kitchen cabinets	2434	14.9	14.4	7.4	7.0	7.5	7.3	108.3	115.5
Hardwood veneer and plywood	2435	15.9	16.6	7.3	8.0	8.6	8.6	121.1	120.6
Softwood veneer and plywood	2436	12.3	12.0	5.8	5.9	6.5	6.2	162.6	111.9
Structural wood members, n.e.c.	2439	27.8	30.2	14.8	14.9	13.0	15.2	179.2	248.8
Wood containers	244	17.6	16.1	10.0	8.9	7.6	7.1	162.2	176.8
Nailed wood boxes and shook	2441	15.5	14.6	8.6	7.4	6.9	7.1	141.0	127.0
Wood pallets and skids	2448	18.0	16.6	10.4	9.7	7.6	7.0	160.8	195.3
Wood containers, n.e.c.	2449	17.7	14.8	9.1	7.2	8.5	7.6	183.2	139.3
Wood buildings and mobile homes	245	28.2	24.9	12.9	10.8	15.3	14.1	204.4	161.8
Mobile homes	2451	28.5	23.7	12.6	9.8	15.8	13.9	197.5	155.2
Prefabricated wood buildings	2452	27.6	27.4	13.4	12.9	14.2	14.5	218.5	175.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1]and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Miscellaneous wood products	249	15.2	14.8	7.0	7.3	8.2	7.6	117.0	120.4
Wood preserving	2491	19.2	18.1	8.2	8.9	11.0	9.1	145.6	131.2
Reconstituted wood products	2493	12.5	11.1	5.6	5.3	6.9	5.8	100.2	96.1
Wood products, n.e.c.	2499	15.2	15.3	7.1	7.5	8.0	7.8	115.6	125.3
Furniture and fixtures	25	15.9	15.3	7.0	6.8	8.9	8.5	105.8	113.8
Household furniture	251	15.1	14.9	6.7	6.6	8.5	8.3	96.8	104.9
Wood household furniture	2511	14.6	14.6	6.2	6.3	8.5	8.2	92.4	102.8
Upholstered household furniture	2512	13.7	13.7	6.2	6.0	7.5	7.7	81.8	81.6
Metal household furniture	2514	16.8	14.9	7.1	6.2	9.7	8.7	126.7	109.6
Mattresses and bedsprings	2515	21.3	20.8	10.5	10.3	10.8	10.4	137.0	178.7
Wood tv and radio cabinets	2517	13.5	13.8	6.3	6.4	7.2	7.4	169.0	109.5
Household furniture, n.e.c.	2519	13.9	14.7	6.8	8.0	7.2	6.7	123.6	136.9
Office furniture	252	18.1	16.1	7.5	6.9	10.5	9.2	123.1	142.3
Wood office furniture	2521	15.3	13.5	7.1	6.2	8.2	7.3	99.6	118.1
Office furniture, except wood	2522	20.6	18.6	8.0	7.6	12.7	11.0	144.9	165.1
Public building and related furniture	253	17.3	17.5	6.9	7.5	10.4	10.0	110.8	137.6
Partitions and fixtures	254	18.5	16.8	8.4	7.6	10.1	9.2	128.0	124.6
Wood partitions and fixtures	2541	17.8	16.2	8.1	7.3	9.7	8.9	127.5	112.0
Partitions and fixtures, except wood	2542	19.4	17.6	8.8	8.0	10.6	9.6	128.7	139.5
Miscellaneous furniture and fixtures	259	11.1	11.6	5.1	5.4	6.0	6.2	76.3	81.4
Drapery hardware and blinds and shades	2591	8.0	10.0	3.4	4.8	4.6	5.3	52.9	66.6
Furniture and fixtures, n.e.c.	2599	16.6	14.0	8.0	6.5	8.6	7.6	118.2	103.7
Stone, clay, and glass products	32	15.6	14.8	7.3	7.2	8.2	7.7	137.4	142.4
Flat glass	321	22.7	19.7	7.1	6.7	15.5	13.0	100.9	101.8
Glass and glassware, pressed or blown	322	14.4	13.4	6.5	6.2	7.9	7.3	128.0	130.2
Glass containers	3221	16.3	14.8	7.4	6.4	8.9	8.4	160.5	157.1
Pressed and blown glass, n.e.c.	3229	12.5	12.2	5.6	5.9	6.9	6.3	94.7	105.1
Products of purchased glass	323	17.8	16.0	6.6	6.2	11.1	9.8	108.7	107.7
Structural clay products	325	16.1	16.3	7.8	7.5	8.3	8.8	144.3	163.4
Brick and structural clay tile	3251	17.9	19.1	8.8	8.8	9.0	10.3	170.0	174.7
Ceramic wall and floor tile	3253	16.3	13.5	6.8	5.6	9.4	7.9	101.8	131.9
Clay refractories	3255	13.3	13.7	7.5	6.8	5.8	6.9	170.3	153.3
Structural clay products, n.e.c.	3259	12.9	17.2	6.8	8.9	6.1	8.3	86.9	234.9
Pottery and related products	326	15.5	14.1	8.7	8.6	6.8	5.5	144.1	166.8
Vitreous plumbing fixtures	3261	26.4	22.6	16.6	15.9	9.8	6.7	283.9	277.2
Porcelain electrical supplies	3264	14.4	12.7	7.7	7.0	6.7	5.7	120.2	154.2
Pottery products, n.e.c.	3269	9.9	9.7	4.7	5.3	5.2	4.4	60.5	103.4
Concrete, gypsum, and plaster products	327	16.4	15.5	8.2	8.1	8.2	7.5	160.9	165.5
Concrete block and brick	3271	19.8	17.1	9.5	8.1	10.4	9.0	185.1	140.9
Concrete products, n.e.c.	3272	21.7	20.2	11.0	10.6	10.8	9.5	192.1	193.7
Ready-mixed concrete	3273	13.8	13.5	7.0	7.1	6.8	6.4	154.9	169.0
Gypsum products	3275	6.3	5.6	2.4	2.4	3.9	3.2	58.6	57.5
Cut stone and stone products	328	14.9	15.0	7.6	7.6	7.3	7.5	144.9	118.8
Miscellaneous nonmetallic mineral products	329	12.7	12.8	6.2	6.4	6.5	6.4	115.8	125.4
Abrasive products	3291	14.4	14.3	7.3	7.3	7.1	7.1	114.1	137.6
Asbestos products	3292	-	11.4	-	6.6	-	4.8	-	101.8
Mineral wool	3296	9.6	9.2	4.4	4.3	5.2	4.9	86.2	98.6
Nonclay refractories	3297	18.2	14.1	9.6	7.7	8.6	6.4	199.5	164.5
Nonmetallic mineral products, n.e.c.	3299	-	16.2	-	8.9	-	7.3	-	120.4
Primary metal industries	33	18.3	17.6	7.9	7.8	10.4	9.8	151.6	157.2
Blast furnace and basic steel products	331	16.1	15.9	6.4	6.7	9.7	9.2	157.1	163.7
Blast furnaces and steel mills	3312	15.0	14.6	5.5	5.6	9.5	9.0	151.0	150.0
Steel wire and related products	3315	18.4	16.6	8.9	9.6	9.5	7.0	143.7	174.0

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Cold finishing of steel shapes	3316	23.7	22.4	11.1	11.0	12.6	11.4	210.8	272.8
Steel pipe and tubes	3317	20.1	22.0	9.4	10.4	10.7	11.6	185.9	169.3
Iron and steel foundries	332	26.4	24.4	11.4	10.4	15.0	14.1	175.6	170.4
Gray and ductile iron foundries	3321	29.1	26.5	11.6	10.7	17.5	15.8	172.1	173.8
Malleable iron foundries	3322	21.0	19.8	9.6	8.4	11.3	11.4	194.6	167.9
Steel investment foundries	3324	16.5	16.2	8.7	8.1	7.8	8.1	118.6	123.8
Steel foundries, n.e.c.	3325	24.8	24.1	12.6	11.3	12.2	12.8	208.6	185.3
Primary nonferrous metals	333	21.9	18.0	7.2	7.1	14.7	10.8	148.3	143.9
Primary copper	3331	19.0	14.6	6.5	6.0	12.5	8.7	190.8	168.6
Primary aluminum	3334	25.8	21.7	7.8	8.4	18.0	13.2	155.9	158.6
Primary nonferrous metals, n.e.c.	3339	15.8	13.0	6.4	5.4	9.4	7.5	117.5	100.8
Secondary nonferrous metals	334	22.5	22.0	11.7	11.7	10.8	10.3	212.7	228.7
Nonferrous rolling and drawing	335	13.1	13.8	6.4	6.7	6.8	7.1	116.4	132.3
Copper rolling and drawing	3351	17.0	17.8	8.9	9.5	8.1	8.4	175.4	211.8
Aluminum sheet, plate, and foil	3353	12.1	12.3	4.1	4.3	8.0	8.0	73.4	82.5
Aluminum extruded products	3354	13.7	16.2	6.3	8.4	7.4	7.9	112.6	138.4
Aluminum rolling and drawing, n.e.c.	3355	11.0	9.8	3.6	2.3	7.4	7.5	78.3	46.1
Nonferrous rolling and drawing, n.e.c.	3356	11.6	8.9	5.3	4.2	6.3	4.6	85.9	95.3
Nonferrous wiredrawing and insulating	3357	12.4	13.2	6.8	6.7	5.6	6.5	123.4	135.2
Nonferrous foundries (castings)	336	21.0	19.6	10.0	9.4	11.0	10.2	165.0	173.2
Aluminum die-castings	3363	-	19.9	-	9.0	-	10.9	-	171.0
Nonferrous die-casting except aluminum	3364	16.3	18.1	7.8	8.2	8.5	9.9	137.1	155.3
Aluminum foundries	3365	21.5	20.7	10.5	10.2	11.0	10.5	168.0	179.8
Copper foundries	3366	21.7	20.7	10.1	11.4	11.6	9.3	179.6	216.6
Nonferrous foundries, n.e.c.	3369	20.7	16.3	10.2	8.0	10.5	8.3	132.4	135.9
Miscellaneous primary metal products	339	16.2	14.8	8.2	7.1	8.0	7.8	127.3	111.4
Metal heat treating	3398	17.3	15.9	9.3	7.7	8.1	8.2	129.6	115.0
Primary metal products, n.e.c.	3399	14.7	13.5	6.8	6.3	7.8	7.2	124.4	108.7
Fabricated metal products	34	17.7	17.5	7.6	7.5	10.1	10.0	129.9	135.8
Metal cans and shipping containers	341	17.5	15.5	7.3	6.3	10.2	9.3	138.1	123.3
Metal cans	3411	16.0	13.6	6.5	5.3	9.5	8.3	121.6	108.4
Metal barrels, drums, and pails	3412	23.4	23.5	10.4	10.4	13.1	13.1	204.7	192.2
Cutlery, handtools, and hardware	342	12.3	13.1	5.4	5.5	6.9	7.6	94.3	102.3
Cutlery	3421	12.0	14.6	5.1	6.8	6.9	7.8	91.5	118.3
Hand and edge tools, n.e.c.	3423	14.3	13.6	6.3	5.5	8.0	8.0	88.3	85.9
Saw blades and handsaws	3425	11.2	9.9	5.7	4.8	5.5	5.2	105.4	77.8
Hardware, n.e.c.	3429	11.5	12.9	4.9	5.3	6.6	7.6	91.7	110.6
Plumbing and heating, except electric	343	17.8	16.9	7.7	7.4	10.1	9.4	135.7	117.7
Plumbing fixture fittings and trim	3432	13.1	12.1	6.2	6.2	6.9	5.8	115.6	92.6
Heating equipment, except electric	3433	-	18.0	-	7.3	-	10.6	-	120.9
Fabricated structural metal products	344	21.3	20.8	9.4	9.3	11.9	11.4	155.6	162.8
Fabricated structural metal	3441	24.8	23.9	12.2	11.9	12.6	11.9	199.8	195.7
Metal doors, sash, and trim	3442	19.8	19.7	8.3	9.1	11.5	10.6	131.7	150.0
Fabricated plate work (boiler shops)	3443	22.1	23.2	9.8	10.8	12.2	12.4	158.7	201.9
Sheet metalwork	3444	20.8	18.8	8.4	7.2	12.4	11.6	154.2	125.5
Architectural metal work	3446	19.9	16.9	8.5	6.6	11.4	10.3	130.7	137.0
Prefabricated metal buildings	3448	17.0	17.0	7.4	7.7	9.6	9.3	134.5	123.0
Miscellaneous metal work	3449	19.1	18.4	8.4	7.6	10.7	10.7	133.3	120.2
Screw machine products, bolts, etc.	345	13.8	14.1	5.5	5.7	8.4	8.4	83.1	88.1
Screw machine products	3451	14.8	14.5	5.6	5.9	9.2	8.6	73.2	82.3
Bolts, nuts, rivets, and washers	3452	12.9	13.7	5.4	5.5	7.5	8.1	93.0	89.4
Metal forgings and stampings	346	22.0	21.3	8.3	8.1	13.7	13.3	149.3	165.0
Iron and steel forgings	3462	19.0	22.3	10.0	10.4	8.9	11.9	189.3	208.7
Nonferrous forgings	3463	17.5	20.4	6.6	8.9	10.9	11.5	137.5	201.3
Automotive stampings	3465	26.9	24.8	8.9	8.8	18.1	16.0	152.1	187.9
Crowns and closures	3466	11.7	11.8	4.6	4.3	7.1	7.5	108.9	104.8
Metal stampings, n.e.c.	3469	17.6	16.8	7.2	6.1	10.4	10.6	133.0	115.1

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]: Total cases [5] 1988	Total cases [5] 1989	Lost workday cases 1988	Lost workday cases 1989	Nonfatal cases without lost workdays 1988	Nonfatal cases without lost workdays 1989	Lost workdays 1988	Lost workdays 1989
Metal services, n.e.c.	347	16.2	15.1	8.0	7.1	8.1	7.9	129.5	124.0
Plating and polishing	3471	15.6	14.5	8.0	6.9	7.6	7.6	129.5	118.1
Metal coating and allied services	3479	17.2	16.1	8.1	7.5	9.1	8.6	129.5	134.6
Ordnance and accessories, n.e.c.	348	8.0	8.8	4.1	3.8	3.9	4.9	67.6	78.6
Ammunition, except for small arms, n.e.c.	3483	5.6	8.0	2.8	3.4	2.8	4.6	52.4	72.6
Small arms	3484	14.4	12.4	8.4	6.1	6.1	6.3	119.7	119.4
Miscellaneous fabricated metal products	349	15.8	16.2	6.9	7.3	8.9	8.9	122.4	129.2
Industrial valves	3491	14.4	14.8	5.9	6.4	8.5	8.5	105.9	122.9
Fluid power valves and hose fittings	3492	12.5	11.6	4.3	4.2	8.2	7.4	70.5	82.3
Steel springs, except wire	3493	21.6	18.6	11.8	11.2	9.8	8.5	177.1	208.6
Valves and pipe fittings, n.e.c.	3494	-	16.5	-	8.1	-	8.4	-	144.8
Wire springs	3495	12.9	11.9	4.5	4.5	8.3	7.4	93.6	75.1
Miscellaneous fabricated wire products	3496	16.0	17.0	7.6	8.4	8.4	8.6	146.1	160.9
Metal foil and leaf	3497	12.8	13.4	3.7	5.7	9.2	7.6	59.0	87.8
Fabricated pipe and fittings	3498	20.8	19.3	10.5	8.6	10.1	10.7	187.2	142.1
Fabricated metal products, n.e.c.	3499	17.0	17.9	7.2	7.6	9.6	10.3	116.0	119.2
Industrial machinery and equipment	35	11.4	11.5	4.4	4.5	7.0	6.9	75.5	78.2
Engines and turbines	351	12.7	12.1	4.4	4.5	8.3	7.6	80.2	85.3
Internal combustion engines, n.e.c.	3519	12.9	13.4	4.5	4.8	8.5	8.5	86.1	89.6
Farm and garden machinery	352	16.3	17.4	5.8	6.3	9.5	11.0	94.8	90.8
Farm machinery and equipment	3523	14.4	17.8	5.6	6.7	8.8	11.1	92.3	97.8
Lawn and garden equipment	3524	17.5	16.1	6.3	5.2	11.2	10.9	101.6	70.0
Construction and related machinery	353	15.9	15.9	6.5	6.5	9.5	9.4	107.7	111.4
Construction machinery	3531	15.6	15.5	6.6	6.0	9.1	9.5	105.5	108.5
Mining machinery	3532	18.2	19.1	7.6	8.1	10.6	11.1	138.8	149.5
Oil and gas field machinery	3533	14.4	12.8	5.5	5.5	8.9	7.3	111.5	103.9
Elevators and moving stairways	3534	10.0	12.4	4.8	5.0	5.2	7.4	91.4	106.6
Conveyors and conveying equipment	3535	16.7	17.6	6.4	7.3	10.4	10.2	95.2	101.7
Hoists, cranes, and monorails	3536	15.1	14.4	6.4	7.4	8.8	7.1	91.0	129.0
Industrial trucks and tractors	3537	20.2	19.5	8.1	8.1	12.1	11.4	120.5	122.5
Metalworking machinery	354	11.6	12.3	4.1	4.5	7.5	7.9	65.5	73.2
Machine tools, metal cutting types	3541	10.0	11.0	3.7	4.3	6.3	6.6	53.9	63.9
Machine tools, metal forming types	3542	12.7	14.8	4.7	5.9	8.0	8.7	69.4	98.8
Special dies, tools, jigs and fixtures	3544	12.0	12.8	3.8	4.1	8.2	8.7	56.0	57.1
Machine tool accessories	3545	10.7	12.1	4.2	4.5	6.5	7.6	77.8	87.7
Power-driven handtools	3546	11.4	8.7	4.4	3.4	7.0	5.2	69.3	59.4
Rolling mill machinery	3547	13.4	14.4	6.5	7.2	6.9	7.2	109.2	202.0
Welding apparatus	3548	11.9	12.7	4.8	5.3	7.1	7.4	81.7	123.8
Metalworking machinery, n.e.c.	3549	13.6	13.5	4.5	5.7	9.1	7.8	60.6	100.7
Special industry machinery	355	14.2	13.6	6.2	5.2	9.0	8.4	85.1	86.7
Textile machinery	3552	13.8	14.4	4.3	4.8	9.5	9.6	63.2	69.4
Woodworking machinery	3553	19.8	18.1	7.0	6.7	12.8	11.3	113.6	99.6
Paper industries machinery	3554	17.6	16.0	6.5	6.7	11.1	9.2	113.8	128.1
Printing trades machinery	3555	9.0	9.3	3.5	3.8	5.5	5.5	67.7	59.9
Food products machinery	3556	17.6	17.1	6.2	6.1	11.4	11.0	81.1	91.5
Special industry machinery, n.e.c.	3559	13.2	12.3	5.2	4.8	8.0	7.4	87.0	87.2
General industrial machinery	356	13.7	13.0	6.4	5.2	8.2	7.8	88.6	90.3
Pumps and pumping equipment	3561	-	12.0	-	4.8	-	7.3	-	89.5
Ball and roller bearings	3562	11.6	11.8	4.1	3.9	7.5	8.0	67.5	69.7
Air and gas compressors	3563	13.4	11.5	4.4	3.8	9.0	7.6	86.5	105.1
Blowers and fans	3564	15.4	14.9	6.4	6.6	9.0	8.4	109.3	109.8
Packaging machinery	3565	15.2	14.4	5.3	5.1	10.0	9.3	77.7	71.8
Speed changers, drives, and gears	3566	-	12.7	-	5.1	-	7.6	-	74.8
Industrial furnaces and ovens	3567	16.2	16.3	6.6	7.1	9.6	9.2	90.5	118.3
Power transmission equipment, n.e.c.	3568	15.5	14.1	7.8	6.3	7.7	7.8	109.3	103.5
General industrial machinery, n.e.c.	3569	12.8	11.6	5.3	5.1	7.5	6.6	82.7	81.5
Computer and office equipment	357	3.3	3.4	1.8	1.7	1.8	1.7	31.6	33.0
Electronic computers	3571	2.5	2.4	1.3	1.3	1.2	1.2	27.2	29.1
Computer storage devices	3572	4.2	3.7	2.2	1.7	2.1	1.9	39.5	31.7
Computer peripheral equipment, n.e.c.	3577	-	4.3	-	2.0	-	2.2	-	39.0

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Refrigeration and service machinery	358	15.4	15.4	6.1	6.4	9.3	9.0	108.9	108.5
Automatic vending machines	3581	21.9	18.4	8.9	8.5	13.0	10.0	120.7	101.9
Refrigeration and heating equipment	3585	15.2	15.3	5.9	6.3	9.3	9.0	109.2	111.3
Measuring and dispensing pumps	3586	13.4	14.1	5.3	5.4	8.1	8.6	84.4	72.1
Service industry machinery, n.e.c.	3589	15.2	16.0	6.3	6.9	8.9	9.1	116.9	110.7
Industrial machinery, n.e.c.	359	12.6	12.4	4.9	4.9	7.8	7.5	88.4	87.9
Carburetors, pistons, rings, valves	3592	12.9	13.8	5.3	5.3	7.6	8.5	120.3	108.2
Fluid power cylinders and actuators	3593	13.4	12.1	6.0	4.4	7.4	7.7	81.3	72.3
Fluid power pumps and motors	3594	-	13.1	-	5.1	-	8.0	-	109.5
Scales and balances, except laboratory	3596	10.0	8.4	3.4	3.6	6.6	4.8	62.0	67.3
Industrial machinery, n.e.c.	3599	12.3	12.3	4.7	4.9	7.6	7.4	81.5	85.6
Electronic and other electric equipment	36	7.6	7.9	3.1	3.4	4.5	4.5	54.1	60.6
Electric distribution equipment	361	9.7	10.9	3.9	4.3	5.8	6.6	72.2	78.3
Transformers, except electronic	3612	10.1	11.9	4.1	4.4	6.0	7.5	75.3	77.2
Switchgear and switchboard apparatus	3613	9.2	9.8	3.7	4.2	5.5	5.6	69.0	75.4
Electrical industrial apparatus	362	9.2	9.8	3.7	4.1	5.5	5.7	68.2	74.7
Motors and generators	3621	10.9	12.2	4.2	5.0	6.7	7.2	82.0	91.0
Carbon and graphite products	3624	8.8	8.4	4.9	4.0	3.9	4.4	88.9	88.4
Relays and industrial controls	3625	6.6	7.2	2.7	3.0	3.9	4.2	47.8	55.4
Electrical industrial apparatus, n.e.c.	3629	11.5	8.3	5.7	3.3	5.7	5.0	58.8	47.9
Household appliances	363	13.6	15.3	5.1	5.6	8.5	9.6	75.3	94.1
Household cooking equipment	3631	21.2	22.8	8.9	8.8	12.3	14.0	115.8	125.2
Household refrigerators and freezers	3632	13.1	13.7	4.7	4.2	8.4	9.6	70.1	81.4
Household laundry equipment	3633	14.0	14.9	5.1	5.4	8.9	9.5	72.5	82.7
Electric housewares and fans	3634	10.8	11.9	3.7	4.6	7.1	7.3	59.2	77.4
Household vacuum cleaners	3635	9.3	11.7	3.1	4.2	6.3	7.5	68.6	119.1
Household appliances, n.e.c.	3639	13.6	18.8	5.6	8.1	8.0	10.7	78.2	154.5
Electric lighting and wiring equipment	364	10.5	9.9	4.4	4.3	6.0	5.6	67.8	82.9
Electric lamps	3641	7.6	8.3	2.8	3.8	4.8	4.5	58.4	85.3
Current-carrying wiring devices	3643	8.6	8.5	4.0	3.6	4.6	4.9	62.8	70.5
Noncurrent-carrying wiring devices	3644	15.6	13.2	6.9	6.7	8.6	6.4	134.1	122.8
Residential lighting fixtures	3645	11.4	12.1	4.8	4.8	6.5	7.3	95.4	92.2
Commercial lighting fixtures	3646	15.3	11.7	6.1	5.8	9.2	5.9	108.8	89.1
Vehicular lighting equipment	3647	11.3	9.3	3.8	3.1	7.4	6.2	70.0	65.7
Lighting equipment, n.e.c.	3648	10.0	11.7	4.5	5.0	5.6	6.6	100.4	68.1
Household audio and video equipment	365	8.1	7.9	3.2	3.6	4.9	4.3	51.4	62.6
Household audio and video equipment	3651	8.6	8.2	3.4	3.8	5.3	4.4	55.3	69.2
Prerecorded records and tapes	3652	6.6	7.1	2.7	2.9	4.0	4.2	41.0	51.5
Communications equipment	366	4.2	4.0	1.7	1.8	2.5	2.3	29.7	32.8
Telephone and telegraph apparatus	3661	3.8	3.6	1.6	1.7	2.2	1.9	29.1	30.8
Radio and tv communications equipment	3663	4.1	4.0	1.6	1.7	2.5	2.3	27.5	31.1
Communications equipment, n.e.c.	3669	6.7	7.1	2.6	2.7	4.1	4.3	44.0	54.8
Electronic components and accessories	367	5.5	5.9	2.4	2.6	3.1	3.2	37.9	46.6
Electron tubes	3671	7.8	9.5	4.8	5.6	3.0	3.9	69.6	125.6
Printed circuit boards	3672	7.5	7.5	3.0	3.6	4.4	3.8	42.0	57.2
Semiconductors and related devices	3674	4.0	4.2	1.8	1.8	2.2	2.4	28.7	28.6
Electronic capacitors	3675	5.4	6.3	1.9	2.2	3.5	4.0	39.0	45.4
Electronic resistors	3676	5.0	6.1	1.9	2.6	3.1	3.5	42.4	69.2
Electronic coils and transformers	3677	6.8	6.6	2.8	2.7	4.0	3.9	38.5	40.7
Electronic components, n.e.c.	3679	5.8	6.3	2.2	2.6	3.6	3.6	38.2	46.8
Miscellaneous electrical equipment and supplies	369	9.8	10.2	4.1	4.8	5.7	5.4	71.7	79.8
Storage batteries	3691	13.4	16.7	7.5	9.0	6.0	7.7	132.8	102.4
Primary batteries, dry and wet	3692	7.7	7.8	3.1	3.6	4.6	4.1	38.4	64.4
Engine electrical equipment	3694	11.3	11.0	3.8	4.6	7.6	6.4	73.6	68.5
Magnetic and optical recording media	3695	4.8	5.8	3.0	3.0	1.8	2.8	43.1	48.2
Electrical equipment and supplies, n.e.c.	3699	7.4	6.9	3.2	3.1	4.3	3.7	50.7	40.2
Transportation equipment	37	15.5	15.3	5.9	6.0	9.6	9.3	112.3	113.2
Motor vehicles and equipment	371	19.5	18.9	7.0	7.1	12.5	11.8	125.1	127.7

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Motor vehicles and car bodies	3711	22.4	21.2	7.3	7.2	15.1	14.0	135.8	140.1
Truck and bus bodies	3713	24.3	23.1	8.9	8.5	15.4	14.5	129.9	125.3
Motor vehicle parts and accessories	3714	16.1	16.1	6.2	6.4	9.9	9.7	112.3	112.4
Truck trailers	3715	26.0	25.3	13.3	12.2	12.7	13.0	161.7	217.1
Motor homes	3716	18.5	20.2	7.1	7.9	11.4	12.4	95.3	120.6
Aircraft and parts	372	9.0	9.0	3.4	3.4	5.7	5.6	62.3	62.6
Aircraft	3721	9.2	8.8	3.1	3.2	6.0	5.6	61.0	62.5
Aircraft engines and engine parts	3724	7.9	7.1	3.4	3.4	4.5	3.7	73.9	64.4
Aircraft parts and equipment, n.e.c.	3728	9.7	11.1	3.7	3.9	6.0	7.2	54.5	61.3
Ship and boat building and repairing	373	33.4	33.9	14.0	14.2	19.4	19.6	325.4	316.1
Ship building and repairing	3731	40.8	40.0	16.7	16.8	24.1	23.2	431.4	400.9
Boat building and repairing	3732	21.1	22.8	9.5	9.6	11.6	13.1	149.8	162.9
Railroad equipment	374	18.4	19.8	6.9	9.2	11.5	10.6	131.8	169.5
Motorcycles, bicycles, and parts	375	10.6	14.8	3.8	6.6	6.8	8.2	73.5	118.2
Guided missiles, space vehicles, parts	376	4.1	4.3	2.1	2.0	2.0	2.3	38.0	39.0
Guided missiles and space vehicles	3761	4.1	4.0	2.2	2.0	1.9	2.1	41.2	37.8
Space propulsion units and parts	3764	4.0	4.3	1.7	1.9	2.3	2.3	29.0	28.1
Space vehicle equipment, n.e.c.	3769	-	5.5	-	2.3	-	3.2	-	40.3
Miscellaneous transportation equipment	379	19.1	16.9	7.4	6.9	11.7	10.0	121.8	115.7
Travel trailers and campers	3792	23.8	22.5	9.2	8.6	14.6	13.9	133.1	155.6
Instruments and related products	38	4.9	4.9	2.1	2.2	2.7	2.7	40.5	42.0
Search and navigation equipment	381	3.1	3.1	1.5	1.3	1.6	1.8	31.6	29.0
Measuring and controlling devices	382	5.6	5.6	2.4	2.6	3.2	3.0	47.1	49.8
Laboratory apparatus and furniture	3821	-	9.9	-	4.4	-	5.4	-	69.1
Environmental controls	3822	7.5	7.9	3.2	3.5	4.3	4.4	70.1	77.7
Process control instruments	3823	6.0	5.9	2.3	2.7	3.7	3.2	38.2	45.3
Fluid meters and counting devices	3824	5.7	6.3	2.8	2.9	2.8	3.5	54.0	70.0
Instruments to measure electricity	3825	4.4	4.1	2.1	1.9	2.3	2.2	35.0	39.1
Analytical instruments	3826	-	5.3	-	2.7	-	2.6	-	57.8
Optical instruments and lenses	3827	-	6.6	-	2.7	-	3.9	-	39.6
Measuring and controlling devices, n.e.c.	3829	6.4	4.5	2.3	2.1	4.0	2.4	70.8	39.7
Medical instruments and supplies	384	6.6	6.3	2.8	2.9	3.8	3.5	48.0	53.5
Surgical and medical instruments	3841	6.4	6.0	2.4	2.8	4.0	3.2	38.5	50.0
Surgical appliances and supplies	3842	7.6	7.7	3.4	3.4	4.2	4.3	60.1	65.1
Dental equipment and supplies	3843	7.1	5.7	3.5	2.8	3.6	2.9	53.5	43.2
X-ray apparatus and tubes	3844	-	5.6	-	2.6	-	3.0	-	69.1
Electromedical equipment	3845	3.5	3.7	1.6	1.4	2.0	2.2	31.8	29.6
Ophthalmic goods	385	4.1	4.5	2.0	2.0	2.1	2.4	41.8	35.4
Photographic equipment and supplies	386	4.8	4.7	2.0	2.0	2.8	2.8	31.2	41.7
Watches, clocks, watchcases and parts	387	6.0	5.5	2.3	2.6	3.8	2.9	38.0	30.4
Miscellaneous manufacturing industries	39	10.5	10.3	4.8	4.7	5.7	5.5	80.8	85.9
Jewelry, silverware, and plated ware	391	4.5	5.3	2.1	2.6	2.4	2.7	33.6	60.3
Jewelry, precious metal	3911	3.6	4.3	1.5	2.0	2.1	2.3	18.9	40.2
Silverware and plated ware	3914	8.6	11.5	4.6	6.2	4.0	5.3	77.8	163.2
Jewelers' materials and lapidary work	3915	4.5	3.7	2.5	2.1	2.1	1.7	58.2	57.9
Musical instruments	393	10.6	9.6	4.3	4.1	6.3	5.6	81.0	58.8
Toys and sporting goods	394	12.5	11.9	5.7	5.5	6.8	6.4	101.8	94.2
Games, toys, and children's vehicles	3944	13.5	11.7	6.4	6.0	7.1	5.7	108.6	118.4
Sporting and athletic goods, n.e.c.	3949	12.6	12.3	5.7	5.4	6.9	6.9	103.4	82.8
Pens, pencils, office, and art supplies	395	8.8	8.9	4.0	4.2	4.8	4.7	63.4	77.1
Pens and mechanical pencils	3951	9.6	7.5	3.1	3.0	6.5	4.5	51.2	54.8
Lead pencils and art goods	3952	11.9	13.0	6.5	6.6	5.4	6.3	88.3	146.7
Carbon paper and inked ribbons	3955	10.3	9.0	5.9	4.3	4.4	4.7	91.3	73.7

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Costume jewelry and notions	396	5.9	6.9	3.2	3.3	2.7	3.7	56.7	81.1
Costume jewelry	3961	4.5	5.9	2.4	2.9	2.0	3.0	50.2	86.7
Fasteners, buttons, needles, and pins	3965	8.4	8.6	4.5	3.9	3.9	4.7	67.9	72.4
Miscellaneous manufactures	399	12.7	12.1	5.7	5.6	6.9	6.6	92.1	95.1
Brooms and brushes	3991	13.0	12.3	6.0	6.3	7.0	6.0	106.3	89.3
Signs and advertising specialities	3993	14.5	12.3	6.2	5.5	8.3	6.8	101.2	87.8
Manufacturing industries, n.e.c.	3999	11.3	11.9	5.3	5.5	5.9	6.4	75.2	100.1
Nondurable goods		10.6	10.6	5.0	5.0	5.6	5.5	91.7	93.2
Food and kindred products	20	16.7	16.2	8.3	8.1	8.4	8.0	147.5	145.3
Meat products	201	22.2	20.2	10.4	10.0	11.8	10.2	174.3	164.5
Meat packing plants	2011	30.1	26.0	14.3	13.1	15.8	12.9	238.3	222.7
Sausages and other prepared meats	2013	22.2	19.4	11.5	10.4	10.7	8.9	194.0	179.2
Poultry slaughtering and processing	2015	15.7	16.0	6.7	7.2	9.0	8.7	113.4	111.3
Dairy products	202	15.2	14.6	7.8	7.6	7.4	7.0	159.3	148.4
Creamery butter	2021	18.6	13.4	9.7	5.4	8.9	8.0	186.5	123.5
Cheese, natural and processed	2022	14.5	14.5	7.2	7.0	7.3	7.5	120.3	126.2
Dry, condensed, evaporated products	2023	9.6	11.7	4.7	5.5	4.9	6.1	97.9	98.0
Ice cream and frozen desserts	2024	16.7	18.5	9.0	9.7	7.7	8.8	157.5	178.9
Fluid milk	2026	16.3	14.3	8.4	7.9	7.9	6.4	192.0	162.7
Preserved fruits and vegetables	203	16.3	16.1	7.6	7.8	8.6	8.3	122.4	136.7
Canned specialties	2032	20.6	18.0	7.9	6.2	12.7	11.8	140.7	92.0
Canned fruits and vegetables	2033	18.2	17.1	8.3	8.8	9.9	8.3	125.8	138.3
Dehydrated fruits, vegetables, soups	2034	13.8	14.4	7.9	9.2	5.8	5.2	161.2	161.7
Pickles, sauces, and salad dressings	2035	14.6	15.1	7.3	6.9	7.4	8.2	101.4	135.5
Frozen fruits and vegetables	2037	12.6	14.3	6.0	7.4	6.6	7.0	110.0	146.8
Frozen specialties, n.e.c.	2038	15.8	16.0	8.1	7.0	7.7	9.0	115.4	142.9
Grain mill products	204	12.7	12.8	6.2	6.5	6.5	6.3	109.2	135.0
Flour and other grain mill products	2041	12.5	12.0	6.3	6.0	6.3	6.0	124.4	153.1
Cereal breakfast foods	2043	11.0	10.8	6.7	5.7	4.4	5.1	126.8	107.9
Rice milling	2044	20.7	17.4	8.7	9.7	12.1	7.8	147.6	321.5
Prepared flour mixes and doughs	2045	16.8	21.4	9.2	11.9	7.6	9.5	133.6	181.9
Wet corn milling	2046	12.1	10.4	3.3	4.4	8.7	6.0	85.3	116.9
Dog and cat food	2047	14.6	13.2	6.6	6.3	8.0	6.9	97.6	110.4
Prepared feeds, n.e.c.	2048	11.2	11.8	5.5	6.0	5.6	5.8	92.4	114.7
Bakery products	205	12.6	12.7	6.9	6.5	5.7	6.2	147.8	141.3
Bread, cake, and related products	2051	12.9	13.0	7.3	6.7	5.6	6.2	163.9	149.6
Cookies and crackers	2052	11.6	12.0	5.9	6.3	5.7	5.7	102.7	123.5
Frozen bakery products, except bread	2053	14.0	11.5	5.6	4.3	8.4	7.2	95.6	80.7
Sugar and confectionery products	206	13.0	13.4	7.1	6.4	5.9	6.9	124.9	103.8
Raw cane sugar	2061	24.5	21.8	11.1	10.3	13.4	11.5	161.6	183.4
Cane sugar refining	2062	11.4	10.8	6.8	6.0	4.6	4.7	136.6	103.8
Beet sugar	2063	13.9	14.8	7.5	7.5	6.3	7.3	111.7	90.6
Candy and other confectionery products	2064	13.0	13.2	7.4	6.3	5.5	6.9	139.9	101.1
Chocolate and cocoa products	2066	9.8	10.9	5.1	4.9	4.8	6.0	86.2	95.3
Chewing gum	2067	9.4	14.3	4.5	7.2	4.9	7.1	66.8	118.6
Salted and roasted nuts and seeds	2068	-	10.5	-	4.7	-	5.8	-	55.2
Fats and oils	207	16.7	15.0	8.4	7.6	8.4	7.4	145.3	162.5
Cottonseed oil mills	2074	19.2	19.5	8.2	9.5	11.0	10.0	158.3	254.8
Soybean oil mills	2075	13.3	10.2	6.3	4.3	7.0	5.9	110.1	70.8
Vegetable oil mills, n.e.c.	2076	10.4	13.8	6.2	7.1	4.2	6.7	87.9	134.8
Animal and marine fats and oils	2077	21.8	22.4	12.8	11.7	9.0	10.6	247.9	251.7
Edible fats and oils, n.e.c.	2079	15.3	11.3	6.9	6.2	8.4	5.1	96.1	130.1
Beverages	208	17.6	17.4	9.0	9.0	8.6	8.4	161.5	162.2
Malt beverages	2082	15.8	13.1	5.0	4.8	10.8	8.2	110.3	105.2
Malt	2083	23.3	22.6	9.2	11.6	14.0	10.9	206.0	263.2
Wines, brandy, and brandy spirits	2084	16.7	13.7	7.3	6.5	9.3	7.2	111.2	122.4
Distilled and blended liquors	2085	9.5	13.7	5.0	7.0	4.5	6.7	117.7	118.9
Bottled and canned soft drinks	2086	20.2	20.8	11.5	11.6	8.7	9.3	198.2	202.5
Flavoring extracts and syrups, n.e.c.	2087	7.9	9.5	4.5	4.6	3.4	5.0	79.1	73.6

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Miscellaneous food and kindred products	209	14.7	15.1	7.5	7.7	7.1	7.3	131.6	121.3
Canned and cured fish and seafoods	2091	21.4	23.7	9.2	11.9	12.2	11.8	96.1	136.3
Fresh or frozen prepared fish	2092	18.2	21.5	9.4	10.3	8.8	11.2	148.0	130.6
Roasted coffee	2095	7.8	8.4	3.7	4.1	4.1	4.3	103.3	85.9
Potato chips and similar snacks	2096	11.2	11.9	6.0	6.2	5.2	5.7	108.1	119.2
Macaroni and spaghetti	2098	17.2	12.7	8.6	6.8	8.6	5.9	208.1	152.4
Food preparations, n.e.c.	2099	13.6	12.8	7.0	7.1	6.6	5.7	128.7	115.3
Tobacco products	21	9.2	8.5	3.0	3.3	6.2	5.2	53.5	60.3
Cigars	212	-	9.0	-	4.3	-	4.7	-	63.7
Tobacco stemming and redrying	214	-	17.9	-	7.3	-	10.5	-	111.1
Textile mill products	22	9.3	9.8	3.9	4.0	5.4	5.8	75.0	74.3
Broadwoven fabric mills, cotton	221	6.8	7.8	2.4	2.6	4.5	5.2	43.7	52.9
Broadwoven fabric mills, manmade	222	8.3	7.7	3.5	3.3	4.8	4.4	61.8	67.8
Broadwoven fabric mills, wool	223	9.6	9.3	5.1	5.0	4.5	4.3	120.6	113.2
Narrow fabric mills	224	10.8	11.1	4.5	5.4	6.3	5.7	82.3	95.0
Knitting mills	225	8.3	8.3	3.9	3.9	4.3	4.4	75.1	62.2
Women's hosiery, except socks	2251	3.8	4.2	1.6	2.0	2.2	2.2	47.5	31.3
Hosiery, n.e.c.	2252	6.7	6.9	3.3	3.4	3.5	3.6	64.3	57.9
Knit outerwear mills	2253	8.6	7.0	4.2	3.6	4.4	3.5	92.8	57.4
Knit underwear mills	2254	8.1	9.5	3.8	3.8	4.3	5.7	63.7	62.7
Weft knit fabric mills	2257	11.9	14.1	5.6	6.9	6.3	7.2	76.3	95.9
Lace and warp knit fabric mills	2258	11.8	11.1	5.1	4.5	6.7	6.6	93.0	81.2
Knitting mills, n.e.c.	2259	-	11.4	-	5.0	-	6.4	-	80.4
Textile finishing, except wool	226	10.4	11.2	4.8	5.0	5.5	6.2	84.1	87.4
Finishing plants, cotton	2261	-	10.8	-	4.8	-	5.9	-	87.3
Finishing plants, manmade	2262	10.2	10.3	5.2	4.6	5.0	5.7	87.8	89.5
Finishing plants, n.e.c.	2269	10.8	13.5	5.1	5.8	5.7	7.7	92.6	83.9
Carpets and rugs	227	9.1	13.4	3.6	4.8	5.4	8.6	86.0	90.2
Yarn and thread mills	228	11.4	11.3	3.6	3.9	7.9	7.3	68.6	73.5
Yarn spinning mills	2281	11.7	11.1	3.4	3.7	8.3	7.4	62.4	68.8
Throwing and winding mills	2282	[illegible]	12.0	4.7	5.4	4.3	6.7	111.4	102.8
Thread mills	2284	13.1	11.8	3.4	3.8	9.8	7.9	56.7	68.8
Miscellaneous textile goods	229	13.5	13.6	6.4	5.9	7.1	7.7	125.3	115.0
Coated fabrics, not rubberized	2295	18.2	14.0	9.5	5.8	8.8	8.3	203.0	110.4
Nonwoven fabrics	2297	8.5	11.2	4.4	4.7	4.1	6.5	85.5	97.0
Textile goods, n.e.c.	2299	-	15.6	-	7.3	-	8.3	-	148.1
Apparel and other textile products	23	7.5	7.6	3.2	3.3	4.3	4.4	59.8	62.5
Men's and boys' suits and coats	231	6.9	7.8	3.2	3.6	3.7	4.2	59.4	74.6
Men's and boys' furnishings	232	9.4	9.5	4.2	4.4	5.2	5.1	85.4	88.7
Men's and boys' shirts	2321	7.2	7.5	2.9	3.3	4.3	4.2	48.8	62.2
Men's and boys' underwear and nightwear	2322	-	8.3	-	3.4	-	4.9	-	44.4
Men's and boys' trousers and slacks	2325	12.3	12.0	5.5	5.6	6.8	6.4	116.9	118.2
Men's and boys' work clothing	2326	11.3	9.5	5.6	4.5	5.7	4.9	109.8	102.0
Men's and boys' clothing, n.e.c.	2329	7.5	9.2	3.5	4.3	4.0	4.8	82.2	91.6
Women's and misses' outerwear	233	4.8	4.7	2.0	1.7	2.9	3.0	38.7	41.8
Women's and misses' blouses and shirts	2331	4.5	4.0	1.8	1.4	2.7	2.6	24.3	26.5
Women's, junior's, and misses' dresses	2335	2.7	3.8	1.0	1.2	1.7	2.6	19.1	50.1
Women's and misses' suits and coats	2337	-	5.5	-	1.9	-	3.6	-	36.1
Women's and misses' outerwear, n.e.c.	2339	5.5	5.0	2.3	2.0	3.1	3.1	48.7	42.9
Women's and children's undergarments	234	6.6	7.0	2.7	2.7	3.8	4.3	64.1	46.8
Women's and children's underwear	2341	5.9	6.9	2.4	2.6	3.5	4.2	64.5	47.1
Bras, girdles, and allied garments	2342	9.6	7.4	4.3	2.7	5.3	4.6	62.3	45.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Hats, caps, and millinery	235	8.3	8.7	2.7	3.7	5.6	5.0	33.2	76.5
Girls' and children's outerwear	236	6.5	7.3	2.7	3.1	3.7	4.2	41.1	57.5
Girls' and children's dresses, blouses	2361	7.3	7.7	2.5	2.8	4.9	4.9	35.9	58.3
Girls' and children's outerwear, n.e.c.	2369	5.9	7.1	2.8	3.4	3.1	3.7	44.3	57.0
Miscellaneous apparel and accessories	238	7.0	6.5	2.9	3.1	4.1	3.4	53.5	54.3
Robes and dressing gowns	2384	7.3	4.9	2.7	2.6	4.6	2.3	58.5	37.5
Waterproof outerwear	2385	8.7	5.2	3.3	2.8	5.4	2.4	65.0	48.4
Miscellaneous fabricated textile products	239	10.0	10.4	4.2	4.4	5.8	5.9	65.1	65.0
Curtains and draperies	2391	9.0	8.2	4.0	3.9	5.0	4.4	77.4	63.6
Housefurnishings, n.e.c.	2392	10.8	11.0	4.7	5.1	6.1	5.8	77.0	73.4
Textile bags	2393	13.1	13.6	5.7	5.6	7.5	8.0	83.4	86.2
Canvas and related products	2394	11.2	12.0	5.2	5.5	5.9	6.5	82.9	63.7
Pleating and stitching	2395	-	8.8	-	4.0	-	4.8	-	47.8
Automotive and apparel trimmings	2396	9.2	11.4	3.5	3.9	5.7	7.5	54.1	62.2
Fabricated textile products, n.e.c.	2399	9.2	8.9	4.2	3.9	5.0	5.1	56.8	56.8
Paper and allied products	26	12.6	12.2	5.7	5.6	6.9	6.6	118.6	124.0
Pulp mills	261	13.0	13.5	4.8	5.2	8.2	8.3	105.9	105.1
Paper mills	262	12.3	11.3	5.0	4.6	7.3	6.7	126.7	130.8
Paperboard mills	263	14.1	11.7	5.1	4.8	9.0	6.9	131.8	121.1
Paperboard containers and boxes	265	13.1	12.9	6.1	6.2	7.0	6.7	117.0	126.7
Setup paperboard boxes	2652	11.0	13.5	4.9	6.4	6.1	7.1	120.9	140.0
Corrugated and solid fiber boxes	2653	14.4	13.0	6.6	6.1	7.8	6.8	121.4	131.4
Fiber cans, drums and similar products	2655	10.8	11.5	5.7	5.6	5.1	5.9	108.3	105.4
Sanitary food containers	2656	10.8	11.4	4.6	6.1	6.2	5.3	85.8	133.3
Folding paperboard boxes	2657	12.1	13.6	5.8	6.6	6.2	7.0	118.5	118.8
Miscellaneous converted paper products	267	12.1	12.3	6.2	6.2	6.0	6.1	111.4	118.3
Paper coated and laminated, packaging	2671	14.3	12.9	9.0	6.4	5.4	6.5	144.8	104.5
Bags: plastics, laminated, and coated	2673	12.7	11.9	6.2	5.5	6.5	6.3	110.7	108.0
Bags: uncoated paper and multiwall	2674	16.9	15.8	8.2	8.1	8.7	7.7	167.3	158.5
Die-cut paper and board	2675	8.6	12.2	4.3	5.9	4.4	6.3	62.2	94.4
Sanitary paper products	2676	8.3	12.2	4.1	6.4	4.2	5.8	76.9	135.7
Envelopes	2677	13.0	12.0	6.8	6.2	6.3	5.8	141.4	135.0
Stationery products	2678	13.5	14.8	7.4	7.1	6.1	7.7	133.0	124.1
Converted paper products, n.e.c.	2679	16.5	12.6	8.2	6.7	8.2	5.9	137.4	118.7
Printing and publishing	27	6.3	6.6	3.0	3.2	3.3	3.5	55.9	58.7
Newspapers	271	6.1	7.0	3.0	3.4	3.1	3.6	58.8	70.0
Periodicals	272	2.9	2.9	1.6	1.6	1.3	1.3	28.1	33.3
Books	273	5.0	6.1	2.5	3.0	2.5	3.1	37.9	51.5
Book publishing	2731	3.1	4.6	1.4	2.3	1.7	2.0	20.0	35.5
Book printing	2732	9.8	10.4	5.3	4.6	4.5	5.7	83.0	88.3
Miscellaneous publishing	274	3.7	3.8	1.9	1.9	1.8	1.9	41.3	28.7
Commercial printing	275	7.7	7.5	3.5	3.5	4.2	4.0	61.4	61.9
Commercial printing, lithographic	2752	7.9	7.2	3.5	3.3	4.3	3.9	60.3	54.2
Commercial printing, gravure	2754	11.6	9.6	4.7	4.7	6.9	4.8	76.7	82.3
Commercial printing, n.e.c.	2759	7.1	8.1	3.4	3.9	3.6	4.3	62.3	76.5
Manifold business forms	276	10.0	9.7	4.7	4.1	5.2	5.5	93.8	71.5
Greeting cards	277	7.4	6.2	3.2	2.8	4.2	3.4	74.3	60.9
Blankbooks and bookbinding	278	8.8	9.1	4.7	4.6	4.1	4.5	89.2	75.3
Blankbooks and looseleaf binders	2782	8.1	8.2	4.0	4.3	4.0	3.9	77.8	61.3
Bookbinding and related work	2789	10.0	10.6	5.7	5.2	4.3	5.4	107.3	98.9
Printing trade services	279	2.0	2.5	.7	1.1	1.3	1.4	12.4	-

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988[1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Typesetting	2791	1.5	2.1	0.5	1.1	1.0	1.1	7.8	21.2
Platemaking services	2796	2.7	3.0	.9	1.2	1.7	1.8	19.1	-
Chemicals and allied products	28	6.5	6.4	3.1	3.0	3.4	3.3	55.0	56.8
Industrial inorganic chemicals	281	5.5	5.3	2.6	2.4	3.0	2.8	56.1	49.6
Alkalies and chlorine	2812	7.8	6.6	3.3	2.5	4.5	4.1	103.1	38.8
Industrial gases	2813	5.1	3.5	2.4	2.0	2.7	1.8	61.9	45.3
Inorganic pigments	2816	7.8	6.6	4.4	3.4	3.4	3.3	77.4	69.2
Industrial inorganic chemicals, n.e.c.	2819	5.1	5.4	2.3	2.4	2.8	2.9	47.0	50.2
Plastics materials and synthetics	282	5.4	5.5	2.5	2.6	2.9	2.9	50.0	52.4
Plastics materials and resins	2821	6.4	6.7	3.2	3.3	3.2	3.4	59.3	68.8
Synthetic rubber	2822	7.1	7.4	2.8	3.9	4.2	3.5	64.2	69.8
Organic fibers, noncellulosic	2824	3.4	2.7	1.3	1.1	2.0	1.6	31.1	21.5
Drugs	283	4.8	5.2	2.3	2.7	2.5	2.6	38.9	47.0
Medicinals and botanicals	2833	5.7	5.2	2.7	2.5	3.0	2.8	37.9	52.2
Pharmaceutical preparations	2834	4.7	5.1	2.2	2.6	2.4	2.4	37.1	45.8
Diagnostic substances	2835	5.6	7.6	3.5	3.1	2.1	4.5	63.0	48.5
Biological products except diagnostic	2836	5.2	5.5	2.4	2.9	2.8	2.6	51.6	56.9
Soap, cleaners, and toilet goods	284	8.1	8.1	3.9	3.8	4.2	4.3	63.6	67.3
Polishes and sanitation goods	2842	10.1	10.1	4.6	4.2	5.5	5.8	63.4	70.4
Surface active agents	2843	9.0	7.9	3.8	3.6	5.1	4.2	60.2	71.6
Toilet preparations	2844	7.5	7.8	3.6	3.6	3.8	4.2	67.4	63.7
Paints and allied products	285	10.1	10.0	4.7	4.9	5.4	5.2	88.2	79.7
Industrial organic chemicals	286	5.7	5.5	2.4	2.4	3.3	3.2	45.6	49.0
Gum and wood chemicals	2861	9.6	8.2	5.5	4.1	4.1	4.1	81.7	97.5
Cyclic crudes and intermediates	2865	6.7	6.0	3.6	3.0	3.1	3.0	54.1	50.1
Industrial organic chemicals, n.e.c.	2869	5.3	5.3	2.0	2.1	3.3	3.1	42.3	46.7
Agricultural chemicals	287	8.7	7.4	4.3	3.4	4.4	4.0	70.7	60.3
Nitrogenous fertilizers	2873	9.5	8.9	3.8	2.9	5.6	5.9	64.5	42.1
Phosphatic fertilizers	2874	-	7.3	-	4.2	-	3.1	-	82.4
Fertilizers, mixing only	2875	13.9	10.1	5.9	4.8	7.9	5.3	115.4	94.7
Agricultural chemicals, n.e.c.	2879	5.8	5.5	3.0	2.5	2.8	3.0	48.5	39.5
Miscellaneous chemical products	289	9.0	8.0	4.6	3.9	4.3	4.1	84.3	78.3
Adhesives and sealants	2891	10.6	8.8	5.3	4.1	5.3	4.6	97.1	61.1
Explosives	2892	-	6.0	-	2.5	-	3.4	-	65.0
Printing ink	2893	8.9	8.1	4.5	4.3	4.4	3.7	61.7	128.4
Chemical preparations, n.e.c.	2899	8.9	8.3	5.0	4.2	3.9	4.2	94.1	77.9
Petroleum and coal products	29	6.6	6.1	3.2	3.2	3.4	2.9	65.6	68.5
Petroleum refining	291	5.4	4.8	2.6	2.6	2.8	2.3	57.0	54.7
Asphalt paving and roofing materials	295	9.9	10.1	4.7	5.1	5.2	5.0	91.3	108.3
Asphalt paving mixtures and blocks	2951	10.4	11.2	4.4	5.0	5.9	6.2	75.6	99.4
Asphalt felts and coatings	2952	9.5	9.1	4.9	5.1	4.6	4.0	105.1	118.3
Miscellaneous petroleum and coal products	299	10.6	9.9	5.2	5.3	5.3	4.5	95.4	85.3
Lubricating oils and greases	2992	10.4	9.5	5.1	5.1	5.3	4.3	87.7	76.2
Rubber and miscellaneous plastics products	30	15.2	15.2	7.5	7.4	7.7	7.8	128.7	127.0
Tires and inner tubes	301	13.8	14.7	8.1	8.9	5.7	5.8	160.1	163.5
Rubber and plastics footwear	302	13.7	14.5	6.5	6.8	7.2	7.7	90.2	107.5
Hose and belting and gaskets and packing	305	12.8	12.9	5.9	5.9	6.9	6.9	95.8	94.7
Rubber and plastics hose and belting	3052	13.5	14.0	6.4	7.2	7.1	6.8	111.6	103.1
Gaskets, packing and sealing devices	3053	12.2	11.9	5.5	4.9	6.8	7.0	83.3	88.0
Fabricated rubber products, n.e.c.	306	16.7	16.0	9.0	8.1	7.7	7.9	161.2	134.1
Mechanical rubber goods	3061	18.0	17.3	10.5	9.1	7.5	8.2	191.9	149.3
Fabricated rubber products, n.e.c.	3069	15.5	14.8	7.7	7.2	7.8	7.6	132.8	121.3

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Miscellaneous plastics products, n.e.c.	308	15.4	15.3	7.4	7.2	8.0	8.1	119.4	124.0
Unsupported plastics film and sheet	3081	13.2	12.8	6.6	5.9	6.6	6.7	98.4	98.2
Unsupported plastics profile shapes	3082	-	15.4	-	7.2	-	8.2	-	135.9
Laminated plastics plate and sheet	3083	12.9	13.2	4.9	6.5	8.0	6.6	75.4	104.0
Plastics pipe	3084	-	15.9	-	8.5	-	7.4	-	148.1
Plastics bottles	3085	14.3	15.5	8.5	8.3	5.8	7.3	149.9	143.0
Plastics foam products	3086	15.6	16.0	7.8	7.1	7.8	8.8	101.4	132.8
Custom compound purchased resins	3087	-	15.7	-	8.3	-	7.4	-	124.1
Plastics plumbing fixtures	3088	-	16.5	-	9.1	-	7.4	-	125.4
Plastics products, n.e.c.	3089	15.8	15.7	7.4	7.2	8.4	8.4	124.1	124.8
Leather and leather products	31	10.2	11.6	4.9	5.6	5.2	6.0	101.6	103.5
Leather tanning and finishing	311	18.7	22.8	10.4	12.8	8.3	10.0	180.6	254.3
Footwear cut stock	313	15.8	13.0	9.2	7.4	6.6	5.6	217.6	138.6
Footwear, except rubber	314	8.9	10.5	4.3	4.9	4.6	5.7	82.3	83.7
House slippers	3142	10.6	8.4	5.4	4.3	5.2	4.1	88.1	76.6
Men's footwear, except athletic	3143	9.9	12.2	4.9	5.5	5.0	6.7	100.8	88.0
Women's footwear, except athletic	3144	6.8	8.0	3.0	4.2	3.8	4.9	77.3	67.7
Footwear, except rubber, n.e.c.	3149	10.5	10.2	5.0	5.0	5.5	5.2	101.8	119.5
Luggage	316	10.8	9.4	4.2	4.6	6.6	4.8	95.0	81.0
Handbags and personal leather goods	317	7.3	7.3	3.1	3.1	4.2	4.2	65.6	57.3
Personal leather goods, n.e.c.	3172	9.9	8.2	4.9	4.3	5.1	3.9	84.7	72.0
Transportation and public utilities [7]		8.8	9.1	5.0	5.2	3.7	3.8	117.5	120.0
Railroad transportation [7]	40	6.8	7.6	4.9	5.7	1.9	1.8	84.4	151.7
Local and interurban passenger transit	41	8.7	9.5	5.2	5.5	3.6	4.0	137.3	123.9
Local and suburban transportation	411	10.8	11.7	6.3	7.2	4.3	4.5	161.5	142.8
Taxicabs	412	4.7	4.9	2.8	3.0	2.0	1.9	56.2	76.6
School buses	415	6.8	8.0	3.6	4.3	3.2	4.6	86.6	88.4
Trucking and warehousing	42	13.8	13.4	8.0	7.9	5.8	5.5	211.4	203.9
Trucking and courier services, except air	421	13.8	13.3	8.0	7.9	5.8	5.4	217.8	208.9
Public warehousing and storage	422	13.0	15.0	7.0	7.9	6.0	7.1	127.1	135.8
Water transportation	44	12.0	11.9	7.4	7.2	4.6	4.7	287.4	291.7
Water transportation of freight, n.e.c.	444	-	9.9	-	6.3	-	3.6	-	164.5
Water transportation services	449	14.4	14.5	9.2	9.0	5.2	5.5	402.7	341.8
Transportation by air	45	12.8	13.9	7.5	8.1	5.3	5.8	128.3	135.2
Air transportation, scheduled	451	13.1	14.2	7.8	8.3	5.3	5.9	138.0	139.6
Air transportation, nonscheduled	452	5.3	7.2	2.0	3.1	3.2	4.1	31.9	57.0
Airports, flying fields, and services	458	12.7	13.8	6.7	8.0	6.0	5.7	109.9	134.9
Pipelines, except natural gas	46	3.5	3.4	1.3	1.2	2.1	2.2	31.4	28.5
Transportation services	47	4.1	4.3	2.3	2.4	1.9	1.9	48.4	47.9
Freight transportation arrangement	473	-	5.4	-	3.2	-	2.3	-	64.5
Communications	48	2.9	3.0	1.5	1.6	1.4	1.4	28.5	31.2
Telephone communications	481	2.0	2.1	1.2	1.3	.8	.8	23.5	28.8
Telegraph and other communications	482	-	1.5	-	.8	-	.8	-	14.1
Radio and television broadcasting	483	2.1	2.0	.8	.7	1.2	1.4	11.2	7.8
Cable and other pay tv services	484	10.7	11.7	5.4	6.2	5.3	5.5	91.4	94.2
Communication services, n.e.c.	489	-	2.9	-	1.7	-	1.2	-	30.7
Electric, gas, and sanitary services	49	7.4	7.7	3.8	4.0	3.6	3.7	71.6	71.8
Electric services	491	6.0	5.7	2.7	2.8	3.3	3.1	51.6	50.3
Gas production and distribution	492	7.1	6.9	3.8	3.4	3.3	3.5	66.4	52.7
Combination utility services	493	4.9	6.3	3.1	3.7	1.8	2.6	68.4	70.0
Water supply	494	10.2	10.1	5.4	5.8	4.9	4.3	88.3	81.1
Sanitary services	495	18.8	18.2	10.1	10.4	8.7	7.8	178.7	187.5
Irrigation systems	497	11.4	16.7	6.4	7.4	5.0	9.3	108.9	66.8

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1]and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Wholesale and retail trade		7.8	7.9	3.5	3.5	4.3	4.3	59.7	62.4
Wholesale trade		7.5	7.6	3.8	3.9	3.7	3.7	68.4	70.7
Wholesale trade durable goods	50	6.6	6.6	3.2	3.3	3.4	3.4	57.2	58.0
Motor vehicles, parts, and supplies	501	8.1	8.6	3.7	4.2	4.4	4.4	58.2	70.0
Furniture and homefurnishings	502	5.8	5.9	2.4	2.8	3.4	3.1	48.2	40.5
Lumber and construction materials	503	11.7	11.4	6.0	6.0	5.7	5.4	95.7	113.5
Professional and commercial equipment	504	3.8	2.6	2.0	1.4	1.8	1.2	52.0	21.9
Metals and minerals, except petroleum	505	13.0	14.5	5.8	6.7	7.2	7.8	111.3	118.1
Electrical goods	506	3.3	4.3	1.5	2.2	1.8	2.0	28.9	38.5
Hardware, plumbing and heating equipment	507	6.1	5.5	2.9	2.4	3.2	3.1	45.1	33.3
Machinery, equipment, and supplies	508	7.4	7.6	3.4	3.5	4.0	4.0	51.2	54.2
Miscellaneous durable goods	509	10.0	9.8	5.2	5.0	4.8	4.8	88.8	105.4
Wholesale trade nondurable goods	51	8.9	9.0	4.7	4.9	4.2	4.1	85.0	94.5
Paper and paper products	511	6.1	6.7	3.1	3.7	2.9	3.0	50.3	75.5
Drugs, proprietaries, and sundries	512	7.2	6.8	3.6	3.4	3.6	3.4	59.5	70.6
Groceries and related products	514	12.4	13.1	6.9	7.4	5.5	5.7	130.0	137.9
Farm-product raw materials	515	8.3	8.6	3.5	3.9	4.7	4.7	58.8	71.6
Petroleum and petroleum products	517	5.4	5.1	2.7	2.5	2.7	2.5	68.9	52.0
Beer, wine, and distilled beverages	518	13.6	13.5	7.5	7.9	6.1	5.6	144.1	171.3
Miscellaneous nondurable goods	519	7.5	7.6	3.7	3.7	3.8	3.9	62.3	73.4
Retail trade		7.8	8.0	3.3	3.4	4.5	4.6	58.2	59.0
Building materials and garden supplies	52	10.5	9.8	5.0	4.7	5.5	5.0	82.8	77.2
Lumber and other building materials	521	13.4	12.6	6.5	6.1	6.9	6.5	104.4	98.5
Paint, glass, and wallpaper stores	523	7.6	6.4	2.9	2.9	4.7	3.5	38.4	65.7
Hardware stores	525	5.7	5.4	2.5	2.7	3.1	2.7	50.6	41.8
Retail nurseries and garden stores	526	7.1	6.4	3.2	3.1	3.9	3.3	39.9	51.4
General merchandise stores	53	9.8	10.6	4.5	4.9	5.3	5.7	69.7	80.7
Department stores	531	10.5	10.7	5.0	4.9	5.5	5.8	77.1	82.5
Variety stores	533	7.7	10.4	3.3	4.4	4.4	6.0	50.7	69.9
Miscellaneous general merchandise stores	539	6.8	10.1	2.0	6.1	4.7	4.0	30.0	75.5
Food stores	54	11.2	11.5	4.7	4.9	6.5	6.6	88.3	100.3
Grocery stores	541	12.1	12.5	5.1	5.2	7.0	7.2	95.8	104.4
Automotive dealers and service stations	55	6.8	6.8	2.8	2.7	4.0	4.1	45.1	50.3
New and used car dealers	551	7.5	7.7	2.5	2.6	5.0	5.1	40.2	45.3
Auto and home supply stores	553	8.3	8.5	3.7	4.3	4.5	4.2	62.9	88.8
Gasoline service stations	554	4.7	4.4	2.2	1.9	2.4	2.5	39.4	32.7
Boat dealers	555	-	9.2	-	4.6	-	4.6	-	109.1
Recreational vehicle dealers	556	-	13.4	-	5.6	-	7.8	-	101.4
Apparel and accessory stores	56	2.5	3.0	1.1	1.3	1.4	1.7	28.0	21.8
Women's clothing stores	562	2.2	2.5	1.0	1.0	1.2	1.5	24.7	13.2
Family clothing stores	565	4.5	5.4	2.0	2.5	2.5	2.9	31.5	46.8
Shoe stores	566	1.9	2.2	.8	.9	1.1	1.2	28.4	-
Furniture and homefurnishings stores	57	4.8	4.7	2.3	2.4	2.6	2.3	43.3	40.1
Furniture and homefurnishings stores	571	5.7	5.9	2.7	3.1	3.0	2.8	45.2	52.1
Household appliance stores	572	5.7	6.4	2.8	3.3	2.9	3.1	79.8	58.1
Radio, television, and computer stores	573	3.0	2.2	1.2	.9	1.7	1.3	26.7	14.4
Eating and drinking places	58	8.7	8.4	3.5	3.2	5.2	5.2	53.8	48.0
Miscellaneous retail	59	3.9	4.1	1.7	1.8	2.2	2.3	29.1	38.3
Drug stores and proprietary stores	591	3.8	3.9	1.4	1.4	2.4	2.5	21.2	30.4
Miscellaneous shopping goods stores	594	2.8	3.5	1.2	1.4	1.6	2.2	20.7	22.1
Nonstore retailers	596	6.9	8.8	3.8	4.9	3.1	3.9	65.6	69.1
Finance, insurance, and real estate		2.0	1.9	.9	.9	1.0	1.0	16.3	16.5
Depository institutions	60	1.5	1.4	.6	.5	.9	.8	9.6	11.1
Commercial banks	602	1.5	1.3	.6	.5	.9	.9	9.5	7.9
Savings institutions	603	1.5	1.8	.6	.8	.9	1.0	9.4	21.2

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Insurance carriers	63	1.7	1.7	0.7	0.7	1.0	1.0	12.8	11.5
Life insurance	631	1.4	1.4	.6	.6	.8	.8	12.2	10.8
Medical service and health insurance	632	1.9	2.2	.8	.9	1.1	1.3	15.1	15.1
Fire, marine, and casualty insurance	633	2.0	1.9	.9	.7	1.1	1.2	14.4	12.4
Pension, health, and welfare funds	637	-	.4	-	.1	-	.3	-	1.7
Insurance agents, brokers, and service	64	.8	.9	.4	.5	.4	.5	6.9	9.5
Real estate	65	4.5	4.7	2.3	2.4	2.2	2.2	42.5	44.9
Real estate operators and lessors	651	5.5	6.1	2.6	3.3	2.9	2.8	45.9	64.2
Real estate agents and managers	653	3.4	3.2	1.6	1.6	1.8	1.6	38.6	29.5
Subdividers and developers	655	6.2	6.2	3.5	3.0	2.7	3.2	52.5	45.2
Holding and other investment offices	67	2.6	1.8	1.3	.8	1.3	1.0	40.4	15.2
Holding offices	671	3.5	2.4	1.8	1.0	1.7	1.3	38.8	22.3
Services		5.5	5.5	2.8	2.8	2.7	2.7	47.1	48.9
Hotels and other lodging places	70	10.2	10.6	4.5	4.6	5.7	6.0	79.6	79.3
Hotels and motels	701	10.3	10.8	4.7	4.7	5.7	6.1	81.7	81.1
Personal services	72	3.4	3.5	1.7	1.8	1.8	1.7	35.0	40.6
Laundry, cleaning, and garment services	721	6.3	6.4	3.2	3.4	3.1	3.1	59.2	74.2
Miscellaneous personal services	729	-	1.9	-	1.0	-	.9	-	25.2
Business services	73	4.6	4.6	2.3	2.3	2.3	2.3	43.0	48.9
Services to buildings	734	6.9	7.8	3.7	4.1	3.2	3.7	76.1	82.3
Personnel supply services	736	8.0	7.2	3.7	3.5	4.3	3.7	69.6	59.2
Miscellaneous business services	738	4.1	4.6	1.9	2.4	2.2	2.3	41.4	51.5
Auto repair, services, and parking	75	6.5	6.6	3.2	3.0	3.4	3.6	60.5	59.8
Automotive rentals, no drivers	751	7.9	9.2	3.8	3.8	4.1	5.4	62.0	83.4
Automobile parking	752	3.9	4.3	2.1	2.1	1.8	2.2	32.7	42.2
Automotive repair shops	753	6.5	5.9	3.1	2.6	3.4	3.3	59.4	52.9
Automotive services, except repair	754	5.9	6.5	3.1	3.7	2.9	2.8	52.4	64.1
Miscellaneous repair services	76	8.0	8.4	4.0	4.4	4.0	4.1	81.9	70.8
Electrical repair shops	762	5.6	5.7	2.9	2.8	2.7	2.9	76.4	91.3
Miscellaneous repair shops	769	9.9	10.5	4.9	5.5	5.0	5.0	90.0	88.6
Amusement and recreation services	79	8.2	8.4	3.7	3.9	4.5	4.5	58.0	68.9
Bowling centers	793	6.1	4.1	2.3	1.6	3.8	2.5	40.3	29.3
Miscellaneous amusement, recreation services	799	8.2	8.8	3.9	4.2	4.3	4.5	52.7	72.4
Health services	80	7.1	7.0	3.6	3.7	3.5	3.3	69.3	75.2
Offices of osteopathic physicians	803	-	(6)	-	(6)	-	(6)	-	(6)
Nursing and personal care facilities	805	14.8	15.2	8.7	9.7	6.1	5.5	179.2	180.3
Hospitals	806	8.4	8.0	3.9	4.1	4.5	3.9	69.6	76.9
Legal services	81	.6	.5	.2	.2	.3	.3	4.5	4.2
Educational services	82	3.7	3.5	1.6	1.5	2.1	1.9	28.6	28.1
Elementary and secondary schools	821	3.7	3.3	1.9	1.6	1.8	1.6	29.5	30.7
Colleges and universities	822	4.1	4.0	1.7	1.7	2.4	2.3	29.9	27.4
Libraries	823	-	3.5	-	1.5	-	2.0	-	25.3
Social services	83	5.1	5.5	2.6	2.7	2.5	2.8	43.9	45.2
Individual and family services	832	3.7	4.0	1.8	2.0	1.9	1.9	39.7	40.1
Job training and related services	833	8.6	8.5	4.4	4.2	4.2	4.3	67.4	53.1
Child day care services	835	1.8	2.0	.9	1.2	.9	.7	19.6	19.0
Residential care	836	8.3	9.1	4.3	4.2	4.0	4.8	63.0	77.1
Social services, n.e.c.	839	-	3.7	-	1.7	-	2.0	-	28.1
Museums, botanical, zoological gardens	84	6.6	6.0	3.0	2.9	3.6	3.1	41.5	50.3
Museums and art galleries	841	4.8	4.3	2.0	2.2	2.8	2.1	31.7	42.8
Botanical and zoological gardens	842	12.9	12.7	6.1	5.7	6.8	7.0	72.4	79.2
Engineering and management services	87	2.0	1.9	.8	.8	1.2	1.0	18.3	12.7
Engineering and architectural services	871	2.3	2.1	1.0	.9	1.3	1.2	20.2	12.8
Accounting, auditing, and bookkeeping	872	.5	.4	.2	.2	.3	.2	6.0	2.8

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1988 [1] and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]							
		Total cases [5]		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1988	1989	1988	1989	1988	1989	1988	1989
Research and testing services	873	2.7	3.0	1.1	1.5	1.6	1.6	18.8	22.6

[1] The data in this table are bas[illegible] the *Standard Industrial Classification Manual*, 1987 Edition; thus, they may differ from 1988 data previously published which were based on the *Standard Industrial Classification Manual*, 1972 Edition, 1977 Supplement.

[2] Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

[4] Incidence rates represent the number of injuries or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where,

N = number of injuries or lost workdays,

EH = total hours worked by all employees during the calendar year,

200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

[5] Includes fatalities. Because of rounding, the difference between the total and the sum of the rates for lost workday cases and nonfatal cases without lost workdays may not reflect the fatality rate.

[6] Excludes farms with fewer than 11 employees.

[7] Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

[8] Incidence rate less than 0.05.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 4. Occupational injury incidence rates by industry division and employment size, 1988 [1] and 1989

Industry division	Establishment employment size (workers)							
	1 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more
	Incidence rates per 100-full time workers [2]							
Private sector: [3]								
1988	3.5	7.3	10.3	11.3	10.6	9.9	8.5	8.7
1989	3.4	7.3	10.3	11.2	10.6	9.4	8.6	8.9
Agriculture, forestry, and fishing: [3]								
1988	6.4	9.5	11.9	13.5	13.0	17.6	23.1	-
1989	6.4	10.0	12.0	13.5	13.5	12.6	-	-
Mining: [4]								
1988	6.8	9.8	10.8	9.6	9.2	8.0	3.5	1.3
1989	6.5	10.0	11.0	9.0	7.9	7.0	3.5	7.7
Construction:								
1988	8.9	15.2	20.1	20.7	17.7	14.9	9.8	10.0
1989	8.3	16.1	19.7	19.7	17.2	12.7	-	-
Manufacturing:								
1988	6.8	12.5	15.3	14.9	12.8	11.1	9.6	10.4
1989	6.6	12.4	14.6	14.7	13.1	11.1	9.4	10.3
Durable goods:								
1988	8.5	15.0	17.9	16.5	13.7	11.7	9.7	11.1
1989	8.5	14.7	16.8	16.1	14.0	11.5	9.5	11.0
Nondurable goods:								
1988	3.9	8.9	12.2	13.2	11.7	10.4	9.3	6.8
1989	3.8	8.8	11.9	13.1	12.1	10.7	9.3	6.8
Transportation and public utilities: [4]								
1988	4.7	9.3	10.5	10.5	8.9	8.4	8.3	9.1
1989	4.7	8.8	11.3	11.2	8.7	8.4	9.2	9.5
Wholesale and retail trade:								
1988	3.0	6.3	9.4	11.4	12.2	13.2	11.9	12.8
1989	3.0	6.4	9.7	11.0	12.6	12.5	12.0	13.2
Wholesale trade:								
1988	3.7	7.3	10.1	11.0	10.3	12.1	8.3	-
1989	3.8	7.3	10.0	10.8	10.7	11.5	8.0	8.7
Retail trade:								
1988	2.7	5.8	9.1	11.6	12.9	13.5	12.8	12.7
1989	2.6	6.0	9.6	11.1	13.3	12.8	12.9	13.5
Finance, insurance, and real estate:								
1988	1.5	1.4	2.3	2.4	2.6	2.6	2.1	1.7
1989	1.3	1.5	2.4	2.6	2.4	2.2	2.0	1.9
Services:								
1988	1.5	3.3	5.8	8.0	7.6	8.0	7.7	6.3
1989	1.6	3.2	6.1	8.1	7.4	7.4	7.7	6.9

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[1] The data in this table are based on the *Standard Industrial Classification Manual*, 1987 Edition; thus, they may differ from 1988 data published prior to November 1990 which were based on the *Standard Industrial Classification Manual*, 1972 Edition, 1977 Supplement.

[2] Incidence rates represent the number of injuries per 100 full-time workers and were calculated as: (N/EH) X 200,000 where,

N = number of injuries,
EH = total hours worked by all employees during the calendar year
200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

[3] Excludes farms with fewer than 11 employees.

[4] Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Dashes indicate that data do not meet publication guidelines.

Table 5. Occupational injury incidence rates for lost workday cases by industry, 1988 [1]and 1989

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]											
		Lost workday injuries						Lost workdays					
		Total lost workday cases		Cases involving days away from work [5]		Cases involving days of restricted work activity only		Total lost workdays		Number of days away from work		Number of days of restricted work activity [6]	
		1988	1989	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
Private sector[7]		3.8	3.9	3.4	3.3	0.5	0.5	72.6	74.2	63.4	63.9	9.2	10.4
Agriculture, forestry, and fishing [7]		5.5	5.6	5.1	5.1	.4	.4	99.8	99.4	91.1	90.3	8.7	9.1
Agricultural production [7]	01-02	6.1	6.0	5.7	5.6	.4	.5	107.8	99.8	98.4	89.7	9.4	10.1
Agricultural services	07	5.0	5.2	4.6	4.8	.3	.4	90.6	98.9	82.6	90.7	8.0	8.2
Forestry	08	6.3	5.4	5.8	4.9	.6	.5	136.0	129.1	126.7	121.5	9.3	7.6
Mining[8]		5.1	4.8	4.6	4.3	.4	.5	150.3	134.7	139.7	124.9	10.6	9.8
Metal mining[8]	10	4.7	4.5	3.8	3.7	.9	.8	144.5	126.3	121.1	108.7	23.4	17.6
Coal mining[8]	12	8.4	8.2	8.1	8.0	.3	.3	238.8	251.4	232.6	245.7	6.2	5.7
Oil and gas extraction	13	4.3	3.7	3.9	3.3	.4	.4	140.7	109.7	130.5	100.4	10.2	9.3
Nonmetallic minerals, except fuels[8]	14	4.0	4.3	3.4	3.6	.6	.7	88.5	88.4	76.1	75.8	12.4	12.6
Construction		6.8	6.7	6.4	6.3	.3	.4	141.1	141.6	133.2	132.1	7.9	9.4
General building contractors	15	6.4	6.4	6.0	6.0	.4	.4	131.3	134.9	123.5	125.9	7.9	9.0
Heavy construction, except building	16	6.9	6.4	6.4	5.8	.5	.6	162.3	145.9	151.8	134.7	10.4	11.2
Special trade contractors	17	6.9	6.8	6.6	6.5	.3	.4	139.8	143.3	132.6	134.1	7.2	9.2
Manufacturing		5.3	5.3	4.2	4.1	1.1	1.2	96.4	98.7	77.7	77.8	18.7	20.9
Durable goods		5.6	5.6	4.4	4.3	1.2	1.3	99.5	102.5	80.0	80.8	19.5	21.7
Lumber and wood products	24	9.8	9.1	8.8	7.9	1.0	1.2	181.4	170.5	161.7	148.3	19.8	22.3
Furniture and fixtures	25	7.0	6.8	5.6	5.3	1.4	1.5	105.8	113.8	85.0	89.5	20.8	24.3
Stone, clay, and glass products	32	7.3	7.2	6.0	5.8	1.3	1.3	137.4	142.4	114.8	118.8	22.6	23.6
Primary metal industries	33	7.9	7.8	6.2	5.9	1.7	1.9	151.6	157.2	121.4	124.2	30.2	33.1
Fabricated metal products	34	7.6	7.5	6.2	6.0	1.4	1.5	129.9	135.8	109.6	111.8	20.2	24.0
Industrial machinery and equipment	35	4.4	4.5	3.7	3.7	.7	.9	75.5	78.2	62.2	63.8	13.3	14.4
Electronic and other electric equipment	36	3.1	3.4	2.3	2.5	.8	.9	54.1	60.6	40.5	44.9	13.7	15.7
Transportation equipment	37	5.9	6.0	4.0	4.0	1.9	2.0	112.3	113.2	81.7	80.5	30.5	32.6
Instruments and related products	38	2.1	2.2	1.6	1.6	.5	.6	40.5	42.0	29.6	29.6	10.9	12.4
Miscellaneous manufacturing industries	39	4.8	4.7	4.0	3.9	.8	.9	80.8	85.9	69.2	71.5	11.6	14.4
Nondurable goods		5.0	5.0	4.0	3.9	1.0	1.2	91.7	93.2	74.3	73.4	17.4	19.8
Food and kindred products	20	8.3	8.1	6.7	6.3	1.5	1.8	147.5	145.3	120.3	113.2	27.2	32.1
Tobacco products	21	3.0	3.3	2.5	2.8	.4	.5	53.5	60.3	49.2	56.0	4.3	4.3
Textile mill products	22	3.9	4.0	2.7	2.6	1.2	1.5	75.0	74.3	58.4	53.4	16.5	20.9
Apparel and other textile products	23	3.2	3.3	2.8	2.8	.4	.5	59.8	62.5	53.0	55.0	6.9	7.5
Paper and allied products	26	5.7	5.6	4.3	4.2	1.4	1.4	118.6	124.0	94.0	97.6	24.6	26.4
Printing and publishing	27	3.0	3.2	2.7	2.8	.3	.4	55.9	58.7	49.6	51.2	6.3	7.5
Chemicals and allied products	28	3.1	3.0	2.1	2.0	1.0	1.0	55.0	56.8	37.3	38.8	17.7	18.0
Petroleum and coal products	29	3.2	3.2	2.0	2.0	1.2	1.2	65.6	66.5	43.2	45.4	22.4	21.2
Rubber and miscellaneous plastics products	30	7.5	7.4	5.9	5.7	1.6	1.7	126.7	127.0	101.5	99.4	25.2	27.6
Leather and leather products	31	4.9	5.6	4.4	4.8	.6	.8	101.6	103.5	90.8	85.9	10.8	17.6
Transportation and public utilities [8]		5.0	5.2	4.5	4.6	.5	.6	117.5	120.0	106.6	105.8	10.9	14.3
Railroad transportation[8]	40	4.9	5.7	4.3	5.1	.6	.7	84.4	151.7	76.3	139.3	8.1	12.4
Local and interurban passenger transit	41	5.2	5.5	5.0	5.1	.2	.3	137.3	123.9	131.2	116.4	6.1	7.4
Trucking and warehousing	42	8.0	7.9	7.6	7.3	.3	.5	211.4	203.9	204.1	188.3	7.3	15.6
Water transportation	44	7.4	7.2	7.1	7.0	.2	.2	297.4	261.7	291.4	256.6	5.9	5.1
Transportation by air	45	7.5	8.1	6.8	7.3	.7	.7	129.3	136.2	115.4	119.7	13.8	16.4
Pipelines, except natural gas	46	1.3	1.2	1.2	1.0	.2	.1	31.4	28.5	26.2	25.8	5.2	2.7
Transportation services	47	2.3	2.4	2.2	2.3	.1	-	49.4	47.9	48.0	43.8	1.5	
Communications	48	1.5	1.6	1.3	1.4	.2	.3	28.5	31.2	19.6	23.0	8.9	8.2
Electric, gas, and sanitary services	49	3.8	4.0	2.6	2.5	1.2	1.4	71.6	71.6	48.1	46.1	23.6	25.6
Wholesale and retail trade		3.5	3.5	3.1	3.2	.3	.3	59.7	62.4	53.5	55.6	6.2	6.8
Wholesale trade		3.8	3.9	3.4	3.5	.4	.5	68.4	70.7	61.2	61.7	7.2	9.0
Wholesale trade durable goods	50	3.2	3.3	2.8	2.9	.4	.4	57.2	55.0	50.5	48.0	6.7	7.0
Wholesale trade nondurable goods	51	4.7	4.9	4.3	4.3	.4	.6	85.0	94.5	77.1	82.5	7.9	12.1

See footnotes at end of table.

Table 5. Occupational injury incidence rates for lost workday cases by industry, 1988 [1]and 1989—Continued

Industry [2]	SIC code [3]	Incidence rates per 100 full-time workers [4]											
		Lost workday injuries						Lost workdays					
		Total lost workday cases		Cases involving days away from work [5]		Cases involving days of restricted work activity only		Total lost workdays		Number of days away from work		Number of days of restricted work activity [6]	
		1988	1989	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
Retail trade		3.3	3.4	3.0	3.1	0.3	0.3	56.2	59.0	50.4	53.1	5.8	5.9
Building materials and garden supplies	52	5.0	4.7	4.4	4.1	.5	.6	82.6	77.3	70.7	65.7	11.9	11.6
General merchandise stores	53	4.5	4.9	3.9	4.2	.6	.7	69.7	80.7	57.0	65.8	12.7	14.9
Food stores	54	4.7	4.9	4.6	4.7	.1	.2	89.3	100.3	85.3	94.7	4.0	5.5
Automotive dealers and service stations	55	2.6	2.7	2.4	2.5	.2	.2	45.1	50.3	40.4	46.1	4.7	4.2
Apparel and accessory stores	56	1.1	1.3	1.0	1.2	.1	.2	26.0	21.6	23.3	18.4	2.7	3.2
Furniture and homefurnishings stores	57	2.3	2.4	2.0	2.1	.2	.3	43.3	40.1	38.1	33.9	5.2	6.2
Eating and drinking places	58	3.5	3.2	3.2	3.0	.3	.2	53.6	48.9	48.6	45.7	5.0	3.2
Miscellaneous retail	59	1.7	1.9	1.5	1.7	.2	.2	29.1	36.3	25.3	31.3	3.8	5.0
Finance, insurance, and real estate		.9	.9	.8	.8	.1	.1	16.3	16.5	14.6	14.6	1.7	1.9
Depository institutions	60	.6	.5	.6	.5	(9)	.1	9.6	11.1	8.7	9.4	1.0	1.7
Insurance carriers	63	.7	.7	.7	.6	(9)	(9)	12.8	11.5	11.8	10.0	1.0	1.6
Insurance agents, brokers, and service	64	.4	.5	.4	.4	(9)	.1	6.9	9.5	6.1	8.2	.7	1.2
Real estate	65	2.3	2.4	2.2	2.2	.2	.2	42.5	44.9	37.7	41.0	4.8	3.9
Holding and other investment offices	67	1.3	.8	1.2	.7	.1	.1	40.4	15.2	37.2	11.9	3.2	3.3
Services		2.6	2.6	2.4	2.4	.2	.2	47.1	49.9	42.2	44.1	5.0	5.8
Hotels and other lodging places	70	4.5	4.6	4.1	4.1	.4	.5	79.6	79.3	71.1	69.7	8.6	9.6
Personal services	72	1.7	1.8	1.6	1.7	.1	.1	30.0	40.6	27.2	37.9	2.8	2.7
Business services	73	2.3	2.3	2.1	2.2	.1	.2	43.0	46.9	39.8	43.0	3.2	3.9
Auto repair, services, and parking	75	3.2	3.0	3.0	2.8	.2	.2	60.5	59.8	56.9	54.2	3.6	5.6
Miscellaneous repair services	76	4.0	4.4	3.6	4.0	.4	.4	81.9	70.8	74.8	63.1	7.1	7.8
Amusement and recreation services	79	3.7	3.9	3.1	3.2	.6	.7	56.0	69.9	46.6	57.8	9.4	12.2
Health services	80	3.6	3.7	3.3	3.4	.3	.3	68.3	75.2	60.8	65.9	7.5	9.3
Legal services	81	.3	.2	.3	.2	(9)	(9)	4.5	4.2	4.2	3.4	.4	-
Educational services	82	1.6	1.5	1.5	1.4	.1	.1	26.6	26.1	23.9	23.6	2.6	2.5
Social services	83	2.6	2.7	2.4	2.4	.2	.3	43.9	45.2	38.4	39.2	5.5	6.0
Museums, botanical, zoological gardens	84	3.0	2.9	2.6	2.5	.3	.4	41.5	50.3	33.9	42.4	7.7	7.9
Engineering and management services	87	.8	.8	.7	.7	.1	.1	16.3	12.7	12.6	10.3	3.7	2.4

[1] The data in this table are based on the *Standard Industrial Classification Manual*, 1987 Edition; thus, they may differ from 1988 data published prior to November 1990 which were based on the *Standard Industrial Classification Manual*, 1972 Edition; 1977 Supplement.

[2] Industry division totals include data for industries not shown separately.

[3] *Standard Industrial Classification Manual*, 1987 Edition.

[4] Incidence rates represent the number of lost workday injuries or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where,

N = number of lost workday injuries or lost workdays
EH = total hours worked by all employees during the calendar year
200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

[5] Also includes cases which involved both days away from work and days of restricted work activity.

[6] The number of days of restricted work activity includes those resulting from cases involving restricted work only and days resulting from cases involving days away from work and days of restricted work activity.

[7] Excludes farms with fewer than 11 employees.

[8] Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Departmentof Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

[9] Incidence rates less than 0.05.

NOTE: Dashes indicate data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 6. Number of occupational injuries and illnesses by industry, 1989

Industry [1]	SIC code [3]	Injuries and illnesses: Total cases (thousands)	Injuries and illnesses: Lost workday cases (thousands)	Injuries and illnesses: Average lost workdays per lost workday case	Injuries: Total cases (thousands)	Injuries: Lost workday cases (thousands)	Injuries: Average lost workdays per lost workday case	Illnesses: Total cases (thousands)	Illnesses: Lost workday cases (thousands)	Illnesses: Average lost workdays per lost workday case
Private sector[2]		6,576.3	3,073.9	20	6,292.5	2,955.5	19	283.7	118.4	29
Agriculture, forestry, and fishing[2]		102.3	53.3	18	98.0	52.2	18	4.3	1.1	13
Agricultural production[2]	01-02	54.9	27.7	16	52.5	27.1	17	2.4	.6	14
Agricultural services	07	45.1	24.4	19	43.3	23.9	19	1.7	-	-
Forestry	08	1.7	.8	24	1.6	.8	24	.1	(6)	-
Mining[2]		60.6	34.5	28	58.7	33.9	28	2.0	.6	31
Metal mining[2]	10	4.1	2.3	28	3.9	2.2	28	.2	.1	-
Coal mining[2]	12	16.3	11.7	31	15.4	11.6	31	.9	.2	30
Oil and gas extraction	13	29.5	14.5	30	28.9	14.3	30	.6	.2	38
Nonmetallic minerals, except fuels[4]	14	10.7	5.9	21	10.4	5.8	21	.3	.1	19
Construction		646.5	304.8	21	638.8	301.2	21	7.7	3.6	21
General building contractors	15	159.8	75.2	21	157.9	74.1	21	2.0	1.1	25
Heavy construction, except building	16	98.9	46.6	23	97.4	46.1	23	1.6	.5	17
Special trade contractors	17	387.7	183.0	21	383.6	181.0	21	4.2	2.0	21
Manufacturing		2,465.5	1,093.7	19	2,261.0	1,007.4	18	204.5	86.3	31
Durable goods		1,581.6	673.5	19	1,453.5	623.7	18	128.1	49.8	32
Lumber and wood products	24	132.5	67.3	19	128.6	65.4	19	4.0	1.8	27
Furniture and fixtures	25	80.7	36.1	17	77.0	34.2	17	3.8	1.9	29
Stone, clay, and glass products	32	87.8	42.1	20	84.0	40.5	20	3.8	1.8	28
Primary metal industries	33	147.2	64.0	21	138.5	61.5	20	8.7	2.5	35
Fabricated metal products	34	263.5	112.0	19	248.5	106.7	18	15.0	5.3	32
Industrial machinery and equipment	35	256.1	101.3	18	242.5	95.9	17	13.6	5.4	34
Electronic and other electric equipment	36	154.0	68.9	20	134.0	57.9	18	19.1	9.0	32
Transportation equipment	37	362.8	139.7	20	313.1	122.4	19	49.7	17.3	30
Instruments and related products	38	56.9	25.6	22	49.3	22.0	19	7.6	3.6	37
Miscellaneous manufacturing industries	39	40.1	18.5	19	37.1	17.1	18	3.0	1.4	31
Nondurable goods		883.9	420.3	20	807.5	383.7	19	76.3	36.5	30
Food and kindred products	20	290.7	148.5	19	259.3	130.2	18	37.4	18.4	28
Tobacco products	21	4.2	1.6	19	4.1	1.6	18	.1	(6)	-
Textile mill products	22	73.2	30.1	19	69.7	28.7	18	3.6	1.3	37
Apparel and other textile products	23	83.0	38.8	21	74.0	31.6	19	9.0	5.1	34
Paper and allied products	26	89.9	41.2	23	86.1	39.7	22	3.7	1.5	43
Printing and publishing	27	95.8	45.7	19	91.9	43.9	19	3.9	1.8	38
Chemicals and allied products	28	73.7	34.1	20	67.6	32.0	19	6.1	2.1	34
Petroleum and coal products	29	10.6	5.3	21	9.8	5.1	21	.8	.1	21
Rubber and miscellaneous plastics products	30	139.9	68.9	18	130.8	63.9	17	9.2	5.0	35
Leather and leather products	31	16.8	8.0	20	14.3	6.9	19	2.5	1.1	30
Transportation and public utilities[5]		481.0	277.3	23	472.7	273.9	23	8.4	3.4	22
Railroad transportation[2]	40	21.9	16.5	26	21.5	16.3	26	.3	.2	26
Local and interurban passenger transit	41	23.7	13.5	23	23.3	13.4	23	.4	.1	35
Trucking and warehousing	42	208.7	122.3	26	207.5	121.8	26	1.2	.6	30
Water transportation	44	18.2	11.0	36	17.9	10.8	36	.3	.1	15
Transportation by air	45	85.3	49.7	17	83.7	48.5	17	1.6	1.1	11
Pipelines, except natural gas	46	.7	.2	24	.6	.2	24	(6)	(6)	-
Transportation services	47	13.0	7.2	20	12.8	7.2	20	-	-	-
Communications	48	38.2	19.7	19	34.7	19.0	19	1.4	-	-
Electric, gas, and sanitary services	49	73.5	37.2	18	70.5	36.6	18	2.9	.6	20
Wholesale and retail trade		1,603.3	719.2	18	1,583.6	710.9	18	19.7	8.2	26
Wholesale trade		455.8	233.3	18	447.0	230.3	18	8.8	3.0	24
Wholesale trade durable goods	50	238.3	117.0	17	235.2	115.7	17	3.1	1.3	23
Wholesale trade nondurable goods	51	217.5	116.3	19	211.8	114.6	19	5.7	1.7	25
Retail trade		1,147.4	485.9	18	1,136.5	480.7	17	10.9	5.2	28

See footnotes at end of table.

Table 6. Number of occupational injuries and illnesses by industry, 1989—Continued

Industry [1]	SIC code [2]	Injuries and illnesses: Total cases (thousands)	Injuries and illnesses: Lost workday cases (thousands)	Injuries and illnesses: Average lost workdays per lost workday case	Injuries: Total cases (thousands)	Injuries: Lost workday cases (thousands)	Injuries: Average lost workdays per lost workday case	Illnesses: Total cases (thousands)	Illnesses: Lost workday cases (thousands)	Illnesses: Average lost workdays per lost workday case
Building materials and garden supplies	52	69.7	33.4	16	69.3	33.2	16	0.4	0.2	31
General merchandise stores	53	188.9	88.5	16	186.7	87.0	16	2.1	1.5	22
Food stores	54	284.7	112.4	21	282.1	111.1	21	2.6	1.3	38
Automotive dealers and service stations	55	133.7	53.2	18	132.7	52.9	18	1.0	-	-
Apparel and accessory stores	56	24.7	10.8	16	24.5	10.8	16	-	-	-
Furniture and homefurnishings stores	57	33.8	17.1	17	33.6	17.0	17	-	-	-
Eating and drinking places	58	354.7	135.3	15	351.9	134.2	15	-	-	-
Miscellaneous retail	59	78.2	35.2	20	76.7	34.5	19	1.5	.7	31
Finance, insurance, and real estate		118.6	54.5	19	115.0	52.6	19	3.7	2.0	34
Depository institutions	60	29.1	11.4	22	28.3	10.8	21	.8	.6	38
Insurance carriers	63	23.1	9.2	20	22.0	8.7	18	1.2	.5	64
Insurance agents, brokers, and service	64	5.6	2.7	22	5.3	2.5	21	-	-	-
Real estate	65	51.7	28.8	18	50.6	28.3	19	1.1	.6	5
Holding and other investment offices	67	3.4	1.5	19	3.3	1.5	19	.1	(4)	-
Services		1,088.5	536.6	19	1,054.9	523.4	19	33.6	13.2	20
Hotels and other lodging places	70	131.7	58.9	17	129.4	58.1	17	2.3	.9	14
Personal services	72	30.0	15.6	23	29.8	15.1	22	-	-	-
Business services	73	161.2	82.1	20	157.5	80.2	20	3.7	1.9	28
Auto repair, services, and parking	75	52.4	23.8	20	51.6	23.5	20	.8	.4	29
Miscellaneous repair services	76	29.5	15.2	17	28.9	15.0	16	.6	.3	41
Amusement and recreation services	79	55.4	25.4	18	53.9	24.9	18	1.5	.4	22
Health services	80	428.8	225.0	20	413.1	219.3	20	15.7	5.6	15
Legal services	81	4.1	1.9	24	3.8	1.8	19	.3	-	-
Educational services	82	41.0	18.0	17	40.1	17.6	17	1.0	.3	23
Social services	83	71.0	34.8	17	68.4	33.7	17	2.7	1.1	14
Museums, botanical, zoological gardens	84	2.6	1.2	17	2.5	1.2	17	.1	(4)	-
Engineering and management services	87	41.8	19.0	15	40.1	18.3	15	1.7	.7	16

[1] Industry division totals include data for industries not shown separately.

[2] *Standard Industrial Classification Manual*, 1987 Edition.

[3] Excludes farms with fewer than 11 employees.

[4] Estimates of fewer than 50 cases.

[5] Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines. Because of rounding, components may not add to totals.

The number of lost workdays for the industries shown in this table can be approximated by multiplying the number of lost workday cases by the average lost workdays per lost workday case.

Table 7. Occupational illness incidence rates by industry and category of illness, 1990

Industry [1]	SIC code [2]	Incidence rates per 10,000 full-time workers [3]							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Private sector[4]		37.1	6.1	0.3	2.5	0.8	2.3	19.2	3.9
Agriculture, forestry, and fishing[4]		45.5	30.4	.2	1.5	1.5	3.1	4.7	4.1
Agricultural production[4]	01-02	53.0	32.1	.4	1.5	1.5	5.5	6.6	5.3
Agricultural services	07	37.8	28.9	–	1.1	1.8	–	–	2.8
Forestry	08	88.7	46.7	–	14.0	–	[6] 2.0	20.0	4.0
Mining[5]		27.4	3.9	7.5	.5	2.1	1.6	8.7	3.1
Metal mining[5]	10	31.6	3.5	[6] .4	[6] .4	7.2	1.4	17.8	1.0
Coal mining[5]	12	62.6	.6	36.2	[6] .3	2.0	.8	22.5	1.4
Oil and gas extraction	13	15.3	4.8	.6	.8	.5	1.9	1.8	5.0
Nonmetallic minerals, except fuels[5]	14	24.2	5.2	1.3	–	5.2	1.8	10.7	[6] .1
Construction		17.0	6.1	.5	1.5	1.1	1.9	2.0	3.8
General building contractors	15	17.0	5.2	–	1.1	.7	1.9	2.3	5.4
Residential building construction	152	17.8	5.0	–	–	–	–	2.3	8.2
Operative builders	153	3.8	1.6	–	[6] .8	–	–	–	–
Nonresidential building construction	154	17.0	5.7	–	1.8	1.0	3.1	2.5	2.7
Heavy construction, except building	16	21.7	10.9	–	2.2	.8	2.8	2.1	2.8
Highway and street construction	161	17.1	8.1	–	1.6	.7	3.1	–	2.0
Heavy construction, except highway	162	23.6	12.1	–	2.5	.9	2.6	2.5	2.9
Special trade contractors	17	15.8	5.2	.6	1.4	1.4	1.8	1.9	3.5
Plumbing, heating, air-conditioning	171	12.8	2.9	–	–	.9	2.3	–	3.9
Painting and paper hanging	172	32.4	–	–	–	14.4	–	–	–
Electrical work	173	9.1	2.8	–	1.4	–	–	1.7	1.5
Masonry, stonework, and plastering	174	15.7	4.7	1.4	1.8	–	.9	3.7	2.4
Carpentry and floor work	175	14.1	–	–	–	–	4.7	–	5.2
Roofing, siding, and sheet metal work	176	20.6	–	–	–	–	–	1.9	–
Concrete work	177	15.5	6.1	[6] .1	–	–	–	1.2	6.0
Water well drilling	178	47.5	27.1	–	2.8	–	[6] .6	–	–
Miscellaneous special trade contractors	179	19.4	6.9	1.3	2.8	–	2.1	1.7	3.8
Manufacturing		108.3	19.6	.7	5.2	1.4	6.6	68.9	5.9
Durable goods		114.0	21.3	.8	5.9	1.8	9.0	68.9	6.3
Lumber and wood products	24	55.0	7.9	.5	1.3	.7	1.4	30.9	3.3
Logging	241	25.7	9.9	–	–	3.1	.7	8.2	–
Sawmills and planing mills	242	78.3	6.4	.4	1.2	.7	2.6	61.3	5.7
Millwork, plywood and structural members	243	58.3	8.5	.5	1.8	[6] .2	1.1	42.3	2.1
Wood containers	244	15.0	4.4	[6] .5	–	–	[6] .5	8.6	–
Wood buildings and mobile homes	245	28.2	9.5	–	1.4	–	[6] .5	16.0	[6] .8
Miscellaneous wood products	249	60.6	8.2	1.1	1.4	.6	1.5	42.2	5.8
Furniture and fixtures	25	75.5	9.5	.4	2.4	.5	2.5	54.3	6.0
Household furniture	251	58.9	7.8	.2	1.6	–	1.2	42.2	5.5
Office furniture	252	132.4	13.8	2.0	1.8	–	2.1	108.7	3.5
Public building and related furniture	253	200.9	32.2	–	16.7	[6] .3	9.1	130.4	11.5
Partitions and fixtures	254	33.1	3.3	–	–	.8	4.2	18.7	5.6
Miscellaneous furniture and fixtures	259	74.0	6.9	–	[6] .6	[6] .9	3.5	51.7	–
Stone, clay, and glass products	32	67.3	18.7	.8	4.9	1.4	2.7	34.3	4.3
Flat glass	321	217.9	15.6	[6] 2.3	6.9	6.6	16.1	163.7	4.8
Glass and glassware, pressed or blown	322	72.7	13.5	–	1.1	1.3	3.3	50.1	2.5
Products of purchased glass	323	82.9	14.3	[6] .2	1.9	–	2.3	57.8	6.4
Structural clay products	325	78.3	11.6	[6] .3	2.7	[6] .3	1.6	52.4	7.5
Pottery and related products	326	168.9	29.8	[6] .3	–	[6] .3	4.8	90.1	10.7
Concrete, gypsum, and plaster products	327	24.8	14.0	–	2.3	1.1	1.7	2.8	3.0
Cut stone and stone products	328	14.9	–	–	–	–	–	–	–
Miscellaneous nonmetallic mineral products	329	82.0	42.1	2.3	6.9	3.5	2.5	29.3	5.5
Primary metal industries	33	109.7	18.5	1.8	7.1	3.9	9.5	61.5	7.4
Blast furnace and basic steel products	331	77.3	16.3	1.5	5.7	3.3	13.3	30.4	6.8

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1989—Continued

Industry [1]	SIC code [2]	Incidence rates per 10,000 full-time workers [3]							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Iron and steel foundries	332	100.5	15.6	4.3	3.8	0.9	7.5	55.6	12.8
Primary nonferrous metals	333	188.1	32.7	1.1	13.1	3.0	29.2	98.9	12.0
Secondary nonferrous metals	334	184.4	24.2	*.5	7.4	81.4	18.9	29.4	2.8
Nonferrous rolling and drawing	335	145.2	16.8	.8	11.0	.8	4.0	107.8	4.0
Nonferrous foundries (castings)	336	125.9	24.4	1.9	8.8	1.4	2.5	80.4	8.6
Miscellaneous primary metal products	339	35.1	20.8	-	3.3	-	-	8.0	*.4
Fabricated metal products	34	105.3	22.5	.4	5.2	1.1	20.2	50.6	5.4
Metal cans and shipping containers	341	88.1	25.7	-	3.5	1.8	2.2	18.3	16.6
Cutlery, handtools, and hardware	342	172.8	31.2	.8	9.0	.5	-	122.0	3.5
Plumbing and heating, except electric	343	348.5	13.2	-	*.7	1.5	272.5	55.0	3.8
Fabricated structural metal products	344	52.9	6.5	.5	4.7	.7	17.2	18.7	4.5
Screw machine products, bolts, etc.	345	63.9	43.1	-	-	-	1.4	6.8	8.9
Metal forgings and stampings	346	172.4	30.1	.5	4.7	1.8	10.2	121.2	4.1
Metal services, n.e.c.	347	85.0	33.3	*.3	10.9	3.8	3.3	28.2	5.0
Ordnance and accessories, n.e.c.	348	145.0	37.0	.7	7.8	*.4	3.8	84.5	11.1
Miscellaneous fabricated metal products	349	55.1	21.8	*.1	3.2	.8	2.8	22.8	4.0
Industrial machinery and equipment	35	64.2	18.0	.3	3.1	.9	3.8	34.7	3.5
Engines and turbines	351	174.3	43.1	*.4	3.9	*.3	2.3	121.8	2.5
Farm and garden machinery	352	127.7	21.0	-	2.1	.7	10.7	89.9	-
Construction and related machinery	353	42.0	12.0	(*)	1.7	.8	6.0	19.4	2.3
Metalworking machinery	354	38.8	17.3	.2	1.9	-	2.0	13.8	2.4
Special industry machinery	355	37.2	10.5	-	3.8	-	9.5	7.4	5.5
General industrial machinery	356	72.8	28.1	1.1	4.4	.7	4.2	30.1	4.0
Computer and office equipment	357	37.3	5.8	-	-	.5	-	25.3	2.2
Refrigeration and service machinery	358	144.1	29.0	*.1	-	-	5.3	98.8	5.0
Industrial machinery, n.e.c.	359	53.8	22.4	.2	-	.7	-	20.1	4.4
Electronic and other electric equipment	36	112.1	20.0	.3	6.4	2.0	3.3	73.1	6.9
Electric distribution equipment	361	109.5	19.8	*.3	7.3	*.3	1.5	78.4	1.9
Electrical industrial apparatus	362	123.3	24.5	1.4	3.8	.9	-	88.0	3.1
Household appliances	363	275.3	25.4	.5	3.8	.8	4.1	222.8	18.0
Electric lighting and wiring equipment	364	84.0	17.2	*.2	4.7	.3	-	55.8	3.8
Household audio and video equipment	365	209.7	24.8	*.1	13.5	4.4	29.0	135.7	2.2
Communications equipment	366	63.6	6.4	*.1	2.4	.8	.7	50.9	2.5
Electronic components and accessories	367	70.5	21.1	.2	9.1	1.0	2.0	28.5	8.6
Miscellaneous electrical equipment and supplies	369	191.3	29.5	.4	5.8	11.4	3.4	128.8	12.2
Transportation equipment	37	242.7	38.3	1.9	11.5	3.8	22.4	158.3	10.6
Motor vehicles and equipment	371	373.1	45.2	.8	10.8	3.4	18.2	283.6	11.4
Aircraft and parts	372	110.0	33.1	.3	10.1	4.8	3.2	49.0	9.5
Ship and boat building and repairing	373	411.1	40.5	17.2	31.2	3.7	131.2	169.7	17.5
Railroad equipment	374	110.1	22.6	*.3	6.0	*.6	25.9	52.1	2.7
Motorcycles, bicycles, and parts	375	245.1	43.1	-	*1.8	-	14.1	180.9	5.5
Guided missiles, space vehicles, parts	376	49.5	12.9	.3	4.4	1.8	2.8	20.4	7.4
Miscellaneous transportation equipment	379	161.9	18.8	*.2	7.3	1.7	47.1	77.2	9.8
Instruments and related products	38	75.2	15.8	.8	5.5	1.1	1.0	44.8	6.6
Search and navigation equipment	381	54.2	8.2	*.1	4.5	2.8	1.2	28.7	8.9
Measuring and controlling devices	382	78.8	[illegible]	.2	7.7	.4	.8	47.2	6.4
Medical instruments and supplies	384	103.5	[illegible]	.9	3.8	.8	1.5	69.4	5.8
Ophthalmic goods	385	122.8	[illegible]	*.5	8.2	*.3	*.3	59.4	-
Photographic equipment and supplies	386	48.7	10.7	2.5	-	-	-	27.0	3.7
Watches, clocks, watchcases and parts	387	37.3	*.9	-	7.3	-	-	28.4	*2.7
Miscellaneous manufacturing industries	39	81.8	25.8	.2	4.5	.8	3.3	42.0	5.4
Jewelry, silverware, and plated ware	391	54.1	12.5	-	1.8	-	1.2	37.1	1.2
Musical instruments	393	104.9	17.3	*.9	4.3	-	*.9	79.8	*.9
Toys and sporting goods	394	144.7	52.3	.8	4.4	.8	8.1	65.4	13.1
Pens, pencils, office, and art supplies	395	121.3	19.0	-	8.8	*1.2	*.3	80.9	11.1
Costume jewelry and notions	396	28.3	13.7	-	*.3	*.8	1.5	12.2	-
Miscellaneous manufactures	399	46.0	16.4	*.1	5.5	.4	1.9	20.4	1.3
Nondurable goods		100.0	17.0	.8	4.2	.9	3.0	68.9	5.3
Food and kindred products	20	233.1	30.4	.4	6.9	1.7	7.5	179.2	7.1
Meat products	201	689.4	79.4	.2	7.1	2.7	18.9	566.0	15.1
Dairy products	202	54.5	8.8	*.1	6.8	.4	4.8	29.7	4.3
Preserved fruits and vegetables	203	145.6	25.0	.4	16.7	.9	7.0	90.1	5.4
Grain mill products	204	34.7	6.4	1.2	-	-	2.1	17.8	2.6

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1989—Continued

Industry [1]	SIC code [2]	Incidence rates per 10,000 full-time workers [3]							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Bakery products	205	75.6	4.7	-	-	0.4	1.6	63.3	-
Sugar and confectionery products	206	77.8	6.4	[5]0.1	2.3	-	2.0	64.6	2.3
Fats and oils	207	28.4	13.6	[5].9	4.0	[5].6	[5]1.2	7.1	[5].9
Beverages	208	25.3	4.5	.4	4.3	[5].2	2.6	10.1	3.2
Miscellaneous food and kindred products	209	123.2	38.1	-	8.7	5.5	4.1	59.2	8.9
Tobacco products	21	20.3	6.5	1.3	2.1	-	[5].8	7.5	1.0
Cigars	212	28.0	[5]7.4	-	[5]3.7	-	-	[5]14.9	-
Tobacco stemming and redrying	214	38.5	13.7	9.1	[5]3.0	-	[5]1.5	[5]1.5	-
Textile mill products	22	50.0	12.2	-	1.1	-	1.1	27.9	6.3
Broadwoven fabric mills, cotton	221	64.0	-	[5].3	-	-	[5].3	23.9	32.2
Broadwoven fabric mills, manmade	222	24.8	12.0	-	1.1	-	-	9.9	-
Broadwoven fabric mills, wool	223	38.0	9.5	[5]1.1	[5]1.1	[5]1.1	[5]1.1	19.6	2.6
Narrow fabric mills	224	33.9	16.7	-	[5].8	-	-	11.3	3.3
Knitting mills	225	68.0	11.6	-	.6	-	1.1	50.4	1.5
Textile finishing, except wool	226	39.8	22.8	-	2.2	-	3.0	4.8	6.5
Carpets and rugs	227	48.0	13.8	-	2.4	-	1.6	28.3	1.9
Yarn and thread mills	228	44.8	11.6	-	1.9	-	1.2	25.1	3.1
Miscellaneous textile goods	229	34.3	9.2	[5].2	-	[5].2	[5].2	22.6	1.0
Apparel and other textile products	23	93.0	14.2	.2	2.0	-	1.2	71.5	3.8
Men's and boys' suits and coats	231	108.5	9.9	-	[5].8	-	[5].2	85.3	10.2
Men's and boys' furnishings	232	185.1	23.1	.3	3.1	-	1.5	152.3	4.5
Women's and misses' outerwear	233	15.9	-	-	.9	-	-	7.0	1.9
Women's and children's undergarments	234	-	-	-	-	-	-	-	-
Hats, caps, and millinery	235	198.5	7.8	-	[5]1.4	-	-	187.3	-
Girls' and children's outerwear	236	68.9	15.5	-	[5].7	-	-	39.4	4.8
Miscellaneous apparel and accessories	238	35.5	6.6	-	[5]1.0	-	[5].3	24.5	-
Miscellaneous fabricated textile products	239	124.1	21.2	[5].1	3.7	-	.7	93.6	-
Paper and allied products	26	53.0	6.6	.1	4.7	.4	3.5	34.4	3.2
Pulp mills	261	35.5	6.4	-	11.7	-	[5]2.3	12.8	[5]2.3
Paper mills	262	63.4	10.2	-	9.8	1.0	7.4	30.2	4.5
Paperboard mills	263	46.8	5.2	-	7.6	-	5.2	26.6	2.2
Paperboard containers and boxes	265	31.2	4.1	(4)	1.6	-	-	22.5	2.7
Miscellaneous converted paper products	267	67.0	6.4	.2	2.5	.3	3.1	51.6	3.0
Printing and publishing	27	28.2	3.4	-	.7	.1	.6	20.1	3.1
Newspapers	271	22.3	1.5	(4)	-	-	-	18.2	-
Periodicals	272	22.7	2.0	-	1.7	-	1.1	16.4	1.6
Books	273	38.0	-	-	-	[5].1	.7	30.4	2.6
Miscellaneous publishing	274	10.5	1.1	-	-	[5].1	-	7.0	-
Commercial printing	275	32.5	5.4	-	.8	-	.6	20.6	4.9
Manifold business forms	276	-	-	-	-	-	-	-	-
Greeting cards	277	79.2	2.9	-	[5]1.2	-	2.5	67.3	5.3
Blankbooks and bookbinding	278	57.3	4.7	-	.7	-	1.9	42.3	6.3
Printing trade services	279	-	-	-	-	-	-	-	-
Chemicals and allied products	28	57.5	22.2	2.3	5.7	1.3	2.2	19.9	3.9
Industrial inorganic chemicals	281	58.0	-	2.8	-	.7	2.8	15.5	4.3
Plastics materials and synthetics	282	77.8	28.8	4.8	8.7	2.1	1.8	25.5	6.1
Drugs	283	60.0	18.6	-	4.6	.6	1.2	28.9	5.1
Soap, cleaners, and toilet goods	284	37.4	12.0	[5].3	3.3	.8	2.2	17.9	.8
Paints and allied products	285	37.3	16.2	-	2.7	[5].2	[5].8	11.4	5.6
Industrial organic chemicals	286	59.1	25.3	4.5	5.5	2.7	3.7	15.3	2.0
Agricultural chemicals	287	38.9	17.3	1.5	4.1	1.7	1.5	9.2	1.7
Miscellaneous chemical products	289	68.8	37.1	2.2	2.9	1.0	3.0	16.4	4.3
Petroleum and coal products	29	49.9	11.5	2.7	-	-	7.7	-	1.4
Petroleum refining	291	52.0	11.4	3.7	7.0	-	10.0	-	1.8
Asphalt paving and roofing materials	295	5.5	3.8	-	-	-	-	-	-
Miscellaneous petroleum and coal products	299	-	-	-	-	-	-	-	-
Rubber and miscellaneous plastics products	30	108.2	22.2	.6	6.4	1.0	2.4	69.2	5.5
Tires and inner tubes	301	69.1	14.3	[5].2	3.2	.7	1.9	45.5	2.5
Rubber and plastics footwear	302	228.6	37.5	[5]1.0	7.2	-	-	189.4	-
Hose and belting and gaskets and packing	305	88.6	20.7	[5].3	5.3	-	1.5	53.6	5.8
Fabricated rubber products, n.e.c.	306	111.4	33.5	[5].3	9.0	-	4.2	56.7	6.5
Miscellaneous plastics products, n.e.c.	308	110.3	21.2	.7	6.5	1.0	2.2	73.0	5.7
Leather and leather products	31	202.2	34.7	-	3.3	1.0	.6	118.5	44.1

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1989—Continued

Industry [1]	SIC code [2]	Incidence rates per 10,000 full-time workers [3]							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Leather tanning and finishing	311	239.9	115.6	-	[5] 0.7	-	-	114.3	9.4
Footwear cut stock	313	128.1	-	-	-	-	-	-	-
Footwear, except rubber	314	274.7	27.7	-	3.8	1.3	0.9	164.1	76.9
Luggage	316	96.9	[5] 4.1	-	[5] 2.1	[5] 1.0	-	88.7	[5] 1.0
Handbags and personal leather goods	317	32.0	[5] 1.5	-	6.5	[5] .7	[5] .7	22.6	-
Transportation and public utilities [6]		16.0	4.6	0.2	1.6	.6	1.0	4.8	3.2
Wholesale and retail trade		8.8	2.3	(7)	1.7	-	-	3.3	1.6
Wholesale trade		15.0	3.1	-	4.4	.5	-	-	1.8
Retail trade		7.7	2.0	(7)	.7	-	.3	2.9	1.5
Finance, insurance, and real estate		6.1	1.3	-	.5	-	.4	2.2	1.4
Services		16.7	5.7	.1	1.7	.6	1.2	2.2	5.2

[1] Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

[2] *Standard Industrial Classification Manual*, 1987 Edition.

[3] Incidence rates represent the number of illnesses per 10,000 full-time workers and were calculated as: (N/EH) X 20,000,000 where,

N = number of illnesses,
EH = total hours worked by all employees during the calendar year,
20,000,000 = base for 10,000 equivalent full-time workers working 40 hours per week, 50 weeks per year).

[4] Excludes farms with fewer than 11 employees.

[5] Incidence rate based on estimates of 1 to 4 cases.

[6] Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

[7] Incidence rates less than 0.05.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 8. Number of occupational illnesses by industry division and category of illness, 1989

(In thousands)

Industry division	Total illnesses	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
		Number of illnesses by category						
Private sector [1]	283.7	62.1	2.6	18.9	5.8	17.7	146.9	29.7
Agriculture, forestry, and fishing [1]	4.3	2.8	([2])	.1	.1	.3	.4	.4
Mining	2.0	.3	.5	([2])	.2	.1	.8	.2
Construction	7.7	2.8	.2	.7	.5	.9	.9	1.7
Manufacturing	204.5	36.9	1.3	9.9	2.7	12.5	130.0	11.1
Transportation and public utilities	8.4	2.4	.1	.8	.3	.5	2.5	1.7
Wholesale and retail trade	19.7	4.7	.1	3.5	-	-	6.7	3.2
Wholesale trade	8.8	1.8	-	2.6	.3	-	-	1.0
Retail trade	10.9	2.9	-	.9	-	.4	4.1	2.2
Finance, insurance, and real estate	3.7	.7	-	.3	-	.3	1.3	.8
Services	33.6	11.4	.2	3.5	1.1	2.4	4.4	10.5

[1] Excludes farms with fewer than 11 employees.

[2] Fewer than 50 cases.

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 9. Employment and occupational injury and illness fatalities for employers with 11 employees or more by industry division, 1988 and 1989

Industry division	Annual average employment				Fatalities			
	1988		1989		1988		1989	
	Number (thousands)	Percent	Number (thousands)	Percent	Number	Percent	Number	Percent
Private sector [1]	76,320	100	78,711	100	3,270	100	3,630	100
Agriculture, forestry, and fishing	938	1	953	1	110	3	110	3
Mining	627	1	610	1	220	7	110	3
Construction	3,847	5	3,822	5	850	26	780	21
Manufacturing	18,757	25	18,752	24	680	20	690	19
Transportation and public utilities	5,116	7	5,195	7	650	20	590	16
Wholesale and retail trade	20,782	27	21,671	28	540	16	720	20
Finance, insurance, and real estate	5,568	7	5,587	7	-	-	-	-
Services	20,684	27	22,022	28	-	-	-	-

[1] Employment data are derived primarily from the BLS-State Current Employment Statistics program. Employment and fatality estimates have been adjusted to exclude establishments with fewer than 11 employees as obtained from the Annual Survey of Occupational Injuries and Illnesses.

NOTE: Because of rounding, components may not add to totals. Dashes indicate no data reported or data that do not meet publication guidelines.

Table 10. Distribution of fatalities by cause: Occupational injury and illness fatalities for employers with 11 employees or more, 1988-89 average [1]

(In percent)

Cause [2]	Total private sector [3]	Agriculture, forestry, and fishing	Mining—oil and gas extraction only	Construction	Manufacturing	Transportation and public utilities [4]	Wholesale and retail trade	Finance, insurance, and real estate	Services
Total, all causes	100	100	100	100	100	100	100	-	-
Highway vehicles	30	19	24	17	19	48	42	-	-
Falls	11	7	8	23	6	4	12	-	-
Heart attacks	10	3	5	10	8	11	6	-	-
Industrial vehicles or equipment	10	30	17	11	13	5	8	-	-
Electrocutions	9	7	6	16	7	10	5	-	-
Struck by objects other than vehicles or equipment	7	11	20	8	14	3	5	-	-
Assaults	4	5	0	(5)	1	1	13	-	-
Aircraft crashes	3	1	0	1	5	9	(5)	-	-
Explosions	3	7	8	2	7	1	1	-	-
Gas inhalation	3	4	5	4	4	4	2	-	-
Plant machinery operations	2	1	1	(5)	9	0	1	-	-
Caught in, under, or between objects other than vehicles or equipment	2	(5)	4	6	2	1	1	-	-
All other [6]	6	3	4	2	7	3	2	-	-

[1] Results are the average of the 2 years because sampling errors for data by cause of fatality are too large to provide reliable annual estimates at the industry division level.

[2] Cause is defined as the object or event associated with the fatality.

[3] Excludes coal, metal, and nonmetal mining and railroads, for which data are not available.

[4] Excludes railroads.

[5] Between 0.1 and 0.5 percent.

[6] The "All other" category includes, for example, contact with carcinogenic or toxic substances, drowning, fires, train accidents, and various occupational illnesses.

NOTE: Dashes indicate data that do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 11. Distribution of fatalities by industry division: Occupational injury and illness fatalities for employers with 11 employees or more, 1988-89 average [1]

(In percent)

Cause [2]	Total private sector [3]	Agriculture, forestry, and fishing	Mining-oil and gas extraction only	Construction	Manufacturing	Transportation and public utilities [4]	Wholesale and retail trade	Finance, insurance, and real estate	Services
Total, all causes	100	3	2	25	22	17	19	-	-
Highway vehicles	100	2	1	14	14	27	27	-	-
Falls	100	2	1	50	14	7	19	-	-
Heart attacks	100	1	1	28	17	20	12	-	-
Industrial vehicles or equipment	100	11	3	29	28	10	15	-	-
Electrocutions	100	3	1	45	17	20	10	-	-
Struck by objects other than vehicles or equipment	100	5	5	28	42	8	12	-	-
Assaults	100	4	0	1	4	2	57	-	-
Aircraft crashes	100	1	0	5	12	58	1	-	-
Explosions	100	8	4	14	51	7	8	-	-
Gas inhalation	100	4	3	29	29	22	9	-	-
Plant machinery operations	100	1	1	2	84	0	12	-	-
Caught in, under, or between objects other than vehicles or equipment	100	2	3	61	20	4	7	-	-
All other [5]	100	5	(6)	12	21	11	23	-	-

[1] Results are the average of the 2 years because sampling errors for data by cause of fatality are too large to provide reliable annual estimates at the industry division level.

[2] Cause is defined as the object or event associated with the fatality.

[3] Excludes coal, metal, and nonmetal mining and railroads, for which data are not available.

[4] Excludes railroads.

[5] The "All other" category includes, for example, contact with carcinogenic or toxic substances, drowning, fires, train accidents, and various occupational illnesses.

[6] Between 0.1 and 0.5 percent.

NOTE: Dashes indicate data that that do not meet publication guidelines. Because of rounding, components may not add to totals.

Appendix A. Scope and Method of Survey

Scope

The occupational injury and illness data reported through the annual survey are based on records which employers maintain under the Occupational Safety and Health Act. The data published in this bulletin reflect the occupational injury and illness experience of employers in the 50 States plus the District of Columbia; data for the U.S. territories are not included.

The survey includes the following industries: Agriculture, forestry, and fishing, SIC 01-09; oil and gas extraction, SIC 13; sulphur mining, part of SIC 14; construction, SIC 15-17; manufacturing, SIC 20-39; transportation and public utilities, SIC 41-42 and 44-49; wholesale and retail trade, SIC 50-59; finance, insurance, and real estate, SIC 60-67; and services, SIC 70-87 and 89. Excluded from the survey are self-employed individuals; farms with fewer than eleven employees; employers regulated by other Federal safety and health laws; and Federal, State, and local government agencies.

Data conforming to definitions of recordable occupational injuries and illnesses for coal, metal, and nonmetal mining, and railroad transportation are provided by the Mine Safety and Health Administration, Department of Labor; and the Federal Railroad Administration, Department of Transportation.

The Occupational Safety and Health Administration is responsible for the collection and compilation of comparable data for Federal agencies. Although State and local government agencies are not surveyed for national estimates, several States have legislation which enables them to collect data for this sector.

The 1989 survey sample was composed of approximately 250,000 sample units. Original and followup mailings resulted in a response rate of 94 percent.

Sample

Because the survey is a Federal-State cooperative program and the data must meet the needs of participating State agencies, an independent sample is selected for each State. The sample is selected to represent all private industries in the States and territories. The sample size for the survey is dependent upon (1) the characteristics for which estimates are needed, (2) the industries for which estimates are desired, (3) the characteristics of the population being sampled, (4) the target reliability of the estimates, and (5) the survey design employed.

While there are many characteristics upon which the sample design could be based, the total case incidence rate is used because it is one of the most important characteristics and the least variable; therefore, it requires the smallest sample size.

The salient features of the sample design employed are its use of stratified random sampling with a Neyman allocation and a ratio estimator. The characteristics used to stratify the establishments are the Standard Industrial Classification (SIC) code and employment. Since these characteristics are highly correlated with an establishment's number and rate of reported injuries and illnesses, stratified sampling provides greater precision and, thus, results in a smaller sample size than simple random sampling. The Neyman allocation produces the minimum sample size which will provide an estimate with a given sampling variance. For the larger employment size classes, the allocation procedure places all of the establishments of the frame in the sample; as employment decreases, smaller and smaller proportions of establishments are included in the sample. The certainty strata are usually the size groups with more than 100 employees. The precision of the sample is further improved, hence permitting a reduction in sample size, by using the ratio estimator, which in turn uses employment data that are correlated with the characteristics which are to be measured.

The sample is designed to produce data at the 2-digit SIC industry level in agriculture, forestry, and fishing; the 3-digit level in oil and gas extraction; construction; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services; and the 4-digit level in manufacturing.

Estimating procedures

Weighting. By means of a weighting procedure, sample units are made to represent all units in their size class for a particular industry. The weight is determined by the inverse of the sampling ratio for the industry/employment-size class from which the unit was selected. Because a small proportion of survey forms are not returned, weights of responding employers in a sampling cell are adjusted to account for the nonrespondents. The respondents are then shifted into the estimating cell determined by the employment and business activity reported. Data for each unit are multiplied by the appropriate weight and nonresponse adjustment factor. The products are then aggregated to obtain a total for the estimating cell.

Benchmarking. Since the universe file which provides the sample frame is not current to the reference year of the survey, it is necessary to adjust the data to reflect current employment levels. In the annual survey, all estimates of totals are adjusted by the benchmark factor at the estimating cell level. The benchmarking procedure requires a source of accurate employment data which can be converted into annual average employment figures for the cell level in which separate estimates are desired. Because industry/employment size data are required for national estimates, benchmark factors are calculated using both industry level employment data and size class level employment data. The benchmark factors are applied to the size class "blow up" estimates.

Federal-State cooperation

To eliminate duplicate reporting by respondents and to insure maximum comparability of estimates, survey repondents complete a single reporting form which is then used for national and State estimates.

Industrial classification

Reporting units are classified into industries by their principal product or activity. The data are tabulated according to the 1987 edition of the *Standard Industrial Classification Manual.*

Reliability of estimates

All estimates derived from a sample survey are subject to sampling and nonsampling errors. Sampling errors occur because observations are made on a sample, not on the entire population. Estimates based on the different possible samples of the same size and sample design could differ. The relative standard errors, which are a measure of the sampling error in the estimates, are calculated as part of the survey's estimation process and are given in tables A-1 through A-4.

When applied to the estimates, the sampling error serves to define the confidence interval or range that would include the comparable complete coverage value. The chances are about 2 out of 3 that the estimate would have been produced in the range of 1 standard error above to 1 standard error below the estimated value, and about 19 out of 20 that the estimate would have been in the range of 2 standard errors above and below the estimated value.

As an example of the use of relative standard errors, the total case incidence rate for general building contractors (SIC 15) is 13.9 per 100 full-time workers (table 1), with a sampling error of 2 percent (table A-1). The chances are 2 out of 3 that a complete census would produce a rate of between 14.2 and 13.6, and the chances are 19 out of 20 that the rate produced from a complete count would be between 14.5 and 13.3. Similarly, the number of occupational injuries and illnesses estimated for SIC 15 was 159,800 (table 6) with a relative error of 2 percent. Thus, the chances are 2 out of 3 that a census would show a number between 162,996 and 156,604 and 19 out of 20 that the number would be between 166,192 and 153,408.

Nonsampling errors in the estimates can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, mistakes in recording or coding the data, definitional difficulties, etc. To minimize the nonsampling errors in the estimates, the completed forms are edited and apparent inconsistencies are checked.

Publication guidelines

The estimating procedure generates occupational injury and illness estimates for approximately 900 SIC codes. This publication, however, excludes estimates for several industry codes if one of the following situations occurred:

1. Estimates for the industry were based on reports from fewer than three companies. Moreover, if three or more companies reported data for the industry, one firm could employ not more than 50 percent of the workers or two companies combined could employ not more than 75 percent.
2. 1989 annual average employment for the industry was less than 10,000. However, data for an industry with an annual average employment of less than 10,000 were published if the majority of the employment was reported in the survey.
3. The relative standard error on total cases for the industry at 1 standard error was more than 20 percent.
4. Benchmark factor for the industry was less than 0.90 or greater than 1.49.

Data for an unpublished industry were included in the total for the broader industry level of which it is a part. Also, selected items of data were suppressed for publishable industries if the sampling error for the estimate equaled or exceeded 60 percent.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Private sector		(3)	1	1	1	(3)	1	1	1
Agriculture, forestry, and fishing		2	3	3	4	2	3	3	4
Agricultural production	01-02	3	4	4	5	3	4	4	5
Agricultural services	07	4	5	5	7	4	5	5	7
Forestry	08	8	11	9	22	9	11	9	23
Mining		2	2	3	3	2	2	3	3
Oil and gas extraction	13	4	4	5	6	4	4	5	6
Crude petroleum and natural gas	131	13	15	14	25	13	15	14	25
Natural gas liquids	132	16	27	17	39	16	28	18	40
Oil and gas field services	138	4	4	5	5	4	4	5	5
Construction		1	1	1	2	1	1	1	2
General building contractors	15	2	2	2	4	2	2	2	4
Residential building construction	152	3	4	4	7	3	4	4	7
Operative builders	153	9	12	10	23	9	12	10	23
Nonresidential building construction	154	2	3	3	4	2	3	3	4
Heavy construction, except building	16	2	2	3	4	2	2	3	4
Highway and street construction	161	3	3	5	5	3	3	5	5
Heavy construction, except highway	162	3	3	4	5	3	3	4	5
Special trade contractors	17	1	1	1	2	1	1	1	2
Plumbing, heating, air-conditioning	171	2	3	3	5	2	3	3	5
Painting and paper hanging	172	6	7	8	12	6	8	8	12
Electrical work	173	3	3	3	6	3	3	3	6
Masonry, stonework, and plastering	174	3	3	4	5	3	3	4	5
Carpentry and floor work	175	5	6	7	10	5	6	7	10
Roofing, siding, and sheet metal work	176	3	4	5	6	3	4	4	6
Concrete work	177	5	6	7	10	5	6	7	10
Water well drilling	178	6	6	8	11	6	6	8	11
Miscellaneous special trade contractors	179	3	3	3	5	3	3	3	5
Manufacturing		(3)	1	1	1	(3)	1	1	1
Durable goods		(3)	1	1	1	(3)	1	1	1
Lumber and wood products	24	1	2	2	2	1	2	2	2
Logging	241	4	4	5	6	4	4	5	6
Sawmills and planing mills	242	3	3	4	4	3	3	4	4
Sawmills and planing mills, general	2421	4	4	5	5	4	4	5	5
Hardwood dimension and flooring mills	2426	4	4	5	9	4	4	5	10
Special product sawmills, n.e.c.	2429	5	6	8	8	5	7	8	8
Millwork, plywood and structural members	243	2	3	3	4	2	3	3	4
Millwork	2431	4	5	5	6	4	5	6	6
Wood kitchen cabinets	2434	5	5	6	8	5	5	6	9
Hardwood veneer and plywood	2435	5	7	6	9	5	7	6	10
Softwood veneer and plywood	2436	4	5	6	5	4	5	6	5
Structural wood members, n.e.c.	2439	6	9	7	11	7	9	7	10
Wood containers	244	4	5	6	8	4	5	6	8
Nailed wood boxes and shook	2441	10	12	14	14	10	12	14	14
Wood pallets and skids	2448	5	6	8	10	5	6	8	11
Wood containers, n.e.c.	2449	6	8	8	11	6	8	8	11
Wood buildings and mobile homes	245	3	4	4	5	3	4	4	5
Mobile homes	2451	3	3	4	4	3	3	4	4
Prefabricated wood buildings	2452	6	8	7	12	6	8	7	13
Miscellaneous wood products	249	3	3	3	4	3	3	3	4

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Wood preserving	2491	5	6	7	8	5	6	7	8
Reconstituted wood products	2493	5	8	6	9	5	8	6	9
Wood products, n.e.c.	2499	4	4	4	5	4	4	5	5
Furniture and fixtures	25	2	2	2	3	2	2	2	3
Household furniture	251	2	3	3	4	2	3	3	4
Wood household furniture	2511	4	5	5	7	4	5	5	7
Upholstered household furniture	2512	4	6	5	7	4	6	5	8
Metal household furniture	2514	8	8	8	10	6	8	8	10
Mattresses and bedsprings	2515	6	8	7	9	6	8	7	9
Wood tv and radio cabinets	2517	8	10	10	4	8	10	10	4
Household furniture, n.e.c.	2519	9	11	12	10	10	12	13	9
Office furniture	252	4	5	5	5	4	6	5	6
Wood office furniture	2521	7	9	9	8	7	9	9	9
Office furniture, except wood	2522	4	7	5	6	5	7	6	8
Public building and related furniture	253	6	9	7	13	6	9	7	12
Partitions and fixtures	254	4	4	5	7	4	4	5	7
Wood partitions and fixtures	2541	5	7	7	13	6	7	7	13
Partitions and fixtures, except wood	2542	5	5	7	7	5	5	7	7
Miscellaneous furniture and fixtures	259	5	6	8	9	5	6	9	9
Drapery hardware and blinds and shades	2591	8	10	16	13	9	11	16	15
Furniture and fixtures, n.e.c.	2599	4	5	5	13	4	5	5	11
Stone, clay, and glass products	32	1	1	2	2	1	1	2	2
Flat glass	321	4	5	4	5	5	5	5	6
Glass and glassware, pressed or blown	322	4	4	5	4	4	4	5	4
Glass containers	3221	5	5	7	6	5	5	7	6
Pressed and blown glass, n.e.c.	3229	6	6	8	6	6	6	8	6
Products of purchased glass	323	5	5	7	6	5	6	7	7
Structural clay products	325	3	4	4	6	3	4	4	6
Brick and structural clay tile	3251	5	6	6	10	5	6	6	10
Ceramic wall and floor tile	3253	5	6	5	10	4	5	5	9
Clay refractories	3255	7	7	9	9	7	7	9	9
Structural clay products, n.e.c.	3259	7	10	9	18	7	10	9	18
Pottery and related products	326	5	5	7	6	5	6	7	7
Vitreous plumbing fixtures	3261	6	8	4	9	6	8	4	10
Porcelain electrical supplies	3264	8	8	14	10	7	9	9	12
Pottery products, n.e.c.	3269	18	16	24	24	18	16	24	25
Concrete, gypsum, and plaster products	327	2	2	3	4	2	2	3	4
Concrete block and brick	3271	6	6	8	8	6	6	8	8
Concrete products, n.e.c.	3272	3	4	4	6	3	4	4	6
Ready-mixed concrete	3273	3	4	4	6	3	4	4	6
Gypsum products	3275	9	14	10	15	9	14	10	15
Cut stone and stone products	328	8	10	10	15	8	10	10	16
Miscellaneous nonmetallic mineral products	329	3	4	4	4	3	4	4	4
Abrasive products	3291	5	6	6	6	5	6	7	6
Asbestos products	3292	9	9	14	10	9	8	16	8
Mineral wool	3296	6	8	7	9	6	7	7	9
Nonclay refractories	3297	6	7	10	9	7	7	10	9
Nonmetallic mineral products, n.e.c.	3299	9	11	13	13	9	11	13	13
Primary metal industries	33	1	1	1	2	1	1	1	2
Blast furnace and basic steel products	331	2	3	3	3	3	3	3	3
Blast furnaces and steel mills	3312	3	4	4	4	3	4	4	4

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code[1]	Relative standard error (percent)[2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Steel wire and related products	3315	7	8	10	10	7	8	10	10
Cold finishing of steel shapes	3316	5	7	6	8	5	7	6	8
Steel pipe and tubes	3317	5	6	7	6	5	6	7	6
Iron and steel foundries	332	2	3	3	3	2	3	3	3
Gray and ductile iron foundries	3321	3	5	4	5	3	5	4	5
Malleable iron foundries	3322	3	4	7	3	3	4	7	3
Steel investment foundries	3324	4	5	4	7	4	6	5	9
Steel foundries, n.e.c.	3325	3	3	5	4	3	3	5	4
Primary nonferrous metals	333	5	9	4	8	5	9	4	8
Primary copper	3331	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Primary aluminum	3334	7	12	5	11	7	12	6	10
Primary nonferrous metals, n.e.c.	3339	9	18	7	22	10	18	8	22
Secondary nonferrous metals	334	8	6	11	8	8	6	12	8
Nonferrous rolling and drawing	335	2	3	3	3	3	3	3	4
Copper rolling and drawing	3351	4	5	5	5	4	5	5	5
Aluminum sheet, plate, and foil	3353	6	9	8	9	6	9	8	9
Aluminum extruded products	3354	6	8	8	9	6	8	8	7
Aluminum rolling and drawing, n.e.c.	3355	6	8	10	1	6	8	10	1
Nonferrous rolling and drawing, n.e.c.	3356	7	9	9	11	7	9	9	9
Nonferrous wiredrawing and insulating	3357	4	6	5	6	5	6	6	7
Nonferrous foundries (castings)	336	2	2	3	4	2	2	3	4
Aluminum die-castings	3363	4	5	4	6	4	5	4	6
Nonferrous die-casting except aluminum	3364	6	6	7	15	6	6	7	16
Aluminum foundries	3365	4	3	6	6	4	4	6	6
Copper foundries	3366	5	6	7	7	5	6	7	8
Nonferrous foundries, n.e.c.	3369	4	6	4	11	4	7	4	12
Miscellaneous primary metal products	339	5	6	7	8	5	6	7	8
Metal heat treating	3398	6	7	10	11	6	7	10	11
Primary metal products, n.e.c.	3399	9	11	10	11	9	11	11	12
Fabricated metal products	34	1	1	1	2	1	1	1	2
Metal cans and shipping containers	341	4	5	5	7	4	5	5	7
Metal cans	3411	6	8	6	9	6	8	7	9
Metal barrels, drums, and pails	3412	5	5	7	8	5	6	7	8
Cutlery, handtools, and hardware	342	3	3	4	4	3	3	4	4
Cutlery	3421	5	5	8	5	6	6	8	7
Hand and edge tools, n.e.c.	3423	6	6	8	6	6	6	8	6
Saw blades and handsaws	3425	12	11	14	13	12	11	15	14
Hardware, n.e.c.	3429	4	5	5	6	4	5	5	6
Plumbing and heating, except electric	343	3	3	3	5	3	4	4	5
Plumbing fixture fittings and trim	3432	5	5	6	8	5	5	6	8
Heating equipment, except electric	3433	6	6	8	9	6	6	8	9
Fabricated structural metal products	344	2	2	2	3	2	2	2	3
Fabricated structural metal	3441	3	3	5	5	3	3	5	5
Metal doors, sash, and trim	3442	3	4	4	5	3	4	4	5
Fabricated plate work (boiler shops)	3443	5	7	6	8	5	6	6	8
Sheet metalwork	3444	4	5	5	7	4	5	5	7
Architectural metal work	3446	7	7	9	14	7	8	9	14
Prefabricated metal buildings	3448	4	5	5	6	4	5	5	6
Miscellaneous metal work	3449	4	5	6	6	5	5	6	6
Screw machine products, bolts, etc.	345	5	6	6	10	5	6	6	10
Screw machine products	3451	7	10	8	12	7	10	8	13
Bolts, nuts, rivets, and washers	3452	7	8	8	16	7	8	8	16
Metal forgings and stampings	346	2	3	2	4	2	3	2	4
Iron and steel forgings	3462	6	6	7	6	5	5	7	6
Nonferrous forgings	3463	4	5	6	8	5	5	6	8

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Automotive stampings	3465	3	4	3	6	3	4	3	5
Crowns and closures	3466	15	20	13	24	15	20	14	24
Metal stampings, n.e.c.	3469	4	6	5	9	4	6	5	9
Metal services, n.e.c.	347	3	4	4	6	4	4	4	6
Plating and polishing	3471	5	6	5	8	5	6	5	8
Metal coating and allied services	3479	5	6	7	9	5	6	7	9
Ordnance and accessories, n.e.c.	348	6	6	7	9	7	6	8	10
Ammunition, except for small arms, n.e.c.	3483	12	10	13	17	13	12	14	19
Small arms	3484	4	4	5	5	4	4	6	6
Miscellaneous fabricated metal products	349	2	3	3	3	2	3	3	4
Industrial valves	3491	10	12	10	13	10	12	10	14
Fluid power valves and hose fittings	3492	5	7	6	13	5	7	6	14
Steel springs, except wire	3493	8	10	11	18	8	10	11	18
Valves and pipe fittings, n.e.c.	3494	7	8	9	9	7	9	9	10
Wire springs	3495	8	12	10	17	8	12	10	16
Miscellaneous fabricated wire products	3496	4	5	6	6	4	5	5	6
Metal foil and leaf	3497	8	13	7	17	8	13	7	17
Fabricated pipe and fittings	3498	5	5	7	9	5	5	7	8
Fabricated metal products, n.e.c.	3499	5	6	5	8	5	7	5	9
Industrial machinery and equipment	35	1	1	1	2	1	1	1	2
Engines and turbines	351	6	6	7	9	6	6	7	8
Internal combustion engines, n.e.c.	3519	7	8	8	11	7	7	8	10
Farm and garden machinery	352	3	5	4	5	3	5	4	6
Farm machinery and equipment	3523	4	6	5	6	4	6	5	7
Lawn and garden equipment	3524	4	5	5	7	4	5	6	8
Construction and related machinery	353	2	3	3	4	2	3	3	4
Construction machinery	3531	4	5	4	5	4	5	4	5
Mining machinery	3532	5	6	6	10	5	6	6	10
Oil and gas field machinery	3533	11	13	13	14	11	13	13	14
Elevators and moving stairways	3534	8	9	13	12	8	9	12	13
Conveyors and conveying equipment	3535	5	7	6	7	5	7	6	7
Hoists, cranes, and monorails	3536	7	10	9	14	7	10	9	14
Industrial trucks and tractors	3537	5	5	6	6	5	5	6	6
Metalworking machinery	354	2	3	3	5	2	3	3	5
Machine tools, metal cutting types	3541	7	7	9	11	7	8	9	11
Machine tools, metal forming types	3542	6	8	7	9	6	8	7	9
Special dies, tools, jigs and fixtures	3544	4	5	4	8	4	5	4	8
Machine tool accessories	3545	7	8	9	14	7	8	9	14
Power-driven handtools	3546	7	9	7	10	7	9	7	11
Rolling mill machinery	3547	12	12	16	14	12	12	16	14
Welding apparatus	3548	8	7	12	16	8	8	13	18
Metalworking machinery, n.e.c.	3549	10	12	13	19	10	12	13	19
Special industry machinery	355	3	4	4	6	3	4	4	6
Textile machinery	3552	5	8	6	11	5	8	6	11
Woodworking machinery	3553	5	6	6	7	5	6	6	7
Paper industries machinery	3554	7	7	8	9	7	7	8	9
Printing trades machinery	3555	8	12	11	8	8	13	11	8
Food products machinery	3556	7	10	8	18	7	10	8	19
Special industry machinery, n.e.c.	3559	7	9	8	12	7	9	8	12
General industrial machinery	356	2	3	3	4	2	3	3	4
Pumps and pumping equipment	3561	5	5	6	8	5	5	7	7
Ball and roller bearings	3562	7	9	8	11	8	9	8	11
Air and gas compressors	3563	7	8	9	13	8	8	10	13
Blowers and fans	3564	6	7	6	10	6	7	6	11
Packaging machinery	3565	7	10	9	12	7	10	9	12
Speed changers, drives, and gears	3566	7	11	7	12	7	11	7	13
Industrial furnaces and ovens	3567	6	7	8	10	6	8	8	10
Power transmission equipment, n.e.c.	3568	8	9	12	16	8	9	12	17

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
General industrial machinery, n.e.c.	3569	6	7	8	9	6	7	8	8
Computer and office equipment	357	5	5	7	7	5	5	7	7
Electronic computers	3571	9	8	13	11	9	7	13	11
Computer storage devices	3572	6	8	7	7	7	10	9	12
Computer peripheral equipment, n.e.c.	3577	10	11	13	14	10	12	14	15
Refrigeration and service machinery	358	5	5	6	7	5	5	6	7
Automatic vending machines	3581	5	5	10	6	5	5	11	7
Refrigeration and heating equipment	3585	6	7	8	9	7	7	9	9
Measuring and dispensing pumps	3586	10	4	15	5	9	4	13	6
Service industry machinery, n.e.c.	3589	6	7	6	12	6	7	7	13
Industrial machinery, n.e.c.	359	3	5	4	6	4	5	4	7
Carburetors, pistons, rings, valves	3592	3	5	4	3	4	5	4	4
Fluid power cylinders and actuators	3593	12	13	12	16	12	13	13	18
Fluid power pumps and motors	3594	6	10	7	15	7	10	8	15
Scales and balances, except laboratory	3596	6	9	7	32	6	9	8	35
Industrial machinery, n.e.c.	3599	5	6	5	9	5	6	6	9
Electronic and other electric equipment	36	1	2	2	2	2	2	2	3
Electric distribution equipment	361	6	7	7	8	7	8	7	8
Transformers, except electronic	3612	6	7	7	12	6	7	7	12
Switchgear and switchboard apparatus	3613	12	14	13	10	14	15	15	11
Electrical industrial apparatus	362	4	5	5	5	5	5	6	5
Motors and generators	3621	5	5	7	6	5	6	7	7
Carbon and graphite products	3624	7	7	10	11	6	7	9	11
Relays and industrial controls	3625	10	11	12	13	11	12	13	9
Electrical industrial apparatus, n.e.c.	3629	8	12	10	14	8	12	11	14
Household appliances	363	3	3	3	5	3	4	3	5
Household cooking equipment	3631	7	5	8	6	8	6	10	7
Household refrigerators and freezers	3632	3	4	2	6	3	5	2	4
Household laundry equipment	3633	5	4	6	4	5	3	6	4
Electric housewares and fans	3634	6	8	7	7	7	10	7	9
Household vacuum cleaners	3635	10	18	10	31	11	19	11	30
Household appliances, n.e.c.	3639	9	13	7	12	9	15	7	13
Electric lighting and wiring equipment	364	3	4	4	5	3	4	5	5
Electric lamps	3641	10	14	10	20	10	14	10	20
Current-carrying wiring devices	3643	6	7	9	9	7	7	9	9
Noncurrent-carrying wiring devices	3644	9	8	14	10	9	8	15	11
Residential lighting fixtures	3645	8	12	10	17	8	11	10	15
Commercial lighting fixtures	3646	9	10	15	10	10	10	15	12
Vehicular lighting equipment	3647	9	11	10	14	10	12	10	13
Lighting equipment, n.e.c.	3648	10	14	15	25	10	14	16	26
Household audio and video equipment	365	6	7	8	9	8	8	9	12
Household audio and video equipment	3651	8	8	10	11	10	10	12	15
Prerecorded records and tapes	3652	6	5	8	7	7	5	10	9
Communications equipment	366	6	7	7	10	7	8	7	9
Telephone and telegraph apparatus	3661	9	10	10	11	8	10	9	12
Radio and tv communications equipment	3663	11	14	12	20	13	15	13	17
Communications equipment, n.e.c.	3669	7	9	8	11	7	10	8	11
Electronic components and accessories	367	3	4	4	6	3	4	5	6
Electron tubes	3671	3	3	7	4	3	3	6	5
Printed circuit boards	3672	8	9	10	18	9	9	11	20
Semiconductors and related devices	3674	6	5	9	8	6	6	10	9
Electronic capacitors	3675	18	28	17	32	19	29	17	38
Electronic resistors	3676	9	9	10	15	8	10	9	16
Electronic coils and transformers	3677	9	9	12	16	9	10	12	18
Electronic components, n.e.c.	3679	7	9	8	13	8	10	8	13
Miscellaneous electrical equipment and supplies	369	4	4	4	9	4	4	5	12

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Storage batteries	3691	7	8	8	23	7	8	8	27
Primary batteries, dry and wet	3692	8	9	8	10	8	10	8	11
Engine electrical equipment	3694	6	7	7	10	7	8	8	10
Magnetic and optical recording media	3695	7	9	8	23	8	10	9	18
Electrical equipment and supplies, n.e.c.	3699	10	10	12	12	9	9	11	12
Transportation equipment	37	1	1	1	1	1	1	1	1
Motor vehicles and equipment	371	1	2	1	2	1	2	1	2
Motor vehicles and car bodies	3711	1	2	1	2	1	2	1	2
Truck and bus bodies	3713	4	4	4	6	4	4	5	6
Motor vehicle parts and accessories	3714	2	4	3	4	2	3	3	5
Truck trailers	3715	6	5	9	6	5	5	7	6
Motor homes	3716	12	15	13	11	12	16	14	11
Aircraft and parts	372	2	2	2	3	2	2	2	3
Aircraft	3721	1	2	2	2	2	2	2	2
Aircraft engines and engine parts	3724	5	7	6	9	5	7	6	10
Aircraft parts and equipment, n.e.c.	3728	4	5	5	7	4	5	5	8
Ship and boat building and repairing	373	1	2	1	2	1	2	1	2
Ship building and repairing	3731	1	2	1	2	1	2	1	2
Boat building and repairing	3732	4	5	5	6	4	5	5	6
Railroad equipment	374	5	6	5	19	5	6	5	20
Motorcycles, bicycles, and parts	375	5	4	6	3	5	4	6	3
Guided missiles, space vehicles, parts	376	3	4	3	5	3	4	4	4
Guided missiles and space vehicles	3761	3	6	2	7	4	6	3	6
Space propulsion units and parts	3764	8	7	14	6	8	8	14	5
Space vehicle equipment, n.e.c.	3769	5	4	6	3	5	4	6	4
Miscellaneous transportation equipment	379	3	4	3	6	3	4	4	7
Travel trailers and campers	3792	6	8	6	11	6	7	6	11
Instruments and related products	38	2	3	3	4	3	3	3	4
Search and navigation equipment	381	5	4	7	6	6	5	8	7
Measuring and controlling devices	382	4	5	5	6	4	6	5	7
Laboratory apparatus and furniture	3821	4	6	7	4	4	6	7	4
Environmental controls	3822	7	9	8	12	8	10	9	15
Process control instruments	3823	14	19	14	20	15	20	14	22
Fluid meters and counting devices	3824	9	7	12	18	9	7	13	20
Instruments to measure electricity	3825	10	10	13	12	11	11	14	12
Analytical instruments	3826	8	9	13	18	9	10	14	20
Optical instruments and lenses	3827	12	15	12	14	10	13	12	14
Measuring and controlling devices, n.e.c.	3829	8	11	9	13	9	12	11	13
Medical instruments and supplies	384	5	5	6	7	5	5	6	7
Surgical and medical instruments	3841	10	9	12	14	10	9	13	12
Surgical appliances and supplies	3842	6	7	6	9	6	8	7	9
Dental equipment and supplies	3843	13	14	16	19	14	14	16	14
X-ray apparatus and tubes	3844	14	13	18	16	16	14	20	13
Electromedical equipment	3845	11	10	16	29	12	11	17	35
Ophthalmic goods	385	9	8	11	14	10	9	13	17
Photographic equipment and supplies	386	10	10	11	12	10	11	11	12
Watches, clocks, watchcases and parts	387	10	14	10	12	10	15	11	13
Miscellaneous manufacturing industries	39	2	2	3	4	2	3	3	5
Jewelry, silverware, and plated ware	391	10	9	14	11	11	9	15	11
Jewelry, precious metal	3911	17	15	22	18	18	16	24	18
Silverware and plated ware	3914	6	9	8	14	7	9	10	16

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Jewelers' materials and lapidary work	3915	15	22	16	18	15	22	17	17
Musical instruments	393	6	6	8	8	6	6	8	6
Toys and sporting goods	394	4	5	4	9	4	5	5	10
Games, toys, and children's vehicles	3944	9	9	10	19	9	10	10	20
Sporting and athletic goods, n.e.c.	3949	4	4	5	6	4	5	4	7
Pens, pencils, office, and art supplies	395	6	9	6	7	6	10	7	9
Pens and mechanical pencils	3951	6	4	7	9	7	5	9	14
Lead pencils and art goods	3952	9	10	14	11	10	11	14	13
Carbon paper and inked ribbons	3955	15	28	17	18	16	30	17	20
Costume jewelry and notions	396	10	12	11	28	10	13	11	27
Costume jewelry	3961	16	21	15	39	16	22	15	40
Fasteners, buttons, needles, and pins	3965	11	11	15	18	12	11	16	19
Miscellaneous manufactures	399	3	4	4	6	3	4	4	6
Brooms and brushes	3991	6	7	9	9	6	7	9	9
Signs and advertising specialties	3993	5	6	5	11	5	6	6	11
Manufacturing industries, n.e.c.	3999	6	8	8	12	7	8	9	12
Nondurable goods		1	1	1	2	1	1	1	2
Food and kindred products	20	1	1	2	2	1	1	1	2
Meat products	201	3	3	3	3	2	3	3	3
Meat packing plants	2011	4	4	5	4	4	4	5	5
Sausages and other prepared meats	2013	6	7	7	7	6	7	7	7
Poultry slaughtering and processing	2015	5	4	6	5	3	4	4	5
Dairy products	202	3	4	5	6	3	4	5	6
Creamery butter	2021	5	8	8	16	5	7	8	14
Cheese, natural and processed	2022	6	7	8	7	6	7	8	7
Dry, condensed, evaporated products	2023	7	7	10	9	7	7	10	10
Ice cream and frozen desserts	2024	7	8	9	9	7	8	8	8
Fluid milk	2026	6	6	8	10	6	6	8	10
Preserved fruits and vegetables	203	3	3	4	4	3	3	4	4
Canned specialties	2032	4	6	6	9	4	6	6	9
Canned fruits and vegetables	2033	6	6	10	7	6	6	9	7
Dehydrated fruits, vegetables, soups	2034	13	17	14	10	13	17	12	11
Pickles, sauces, and salad dressings	2035	7	7	10	13	7	7	10	14
Frozen fruits and vegetables	2037	6	7	8	8	6	7	8	9
Frozen specialties, n.e.c.	2038	5	5	7	8	5	5	7	8
Grain mill products	204	3	4	4	5	3	4	4	5
Flour and other grain mill products	2041	5	7	6	9	5	7	6	10
Cereal breakfast foods	2043	11	15	9	15	11	16	9	16
Rice milling	2044	7	9	7	15	7	9	7	16
Prepared flour mixes and doughs	2045	3	4	6	6	3	4	6	6
Wet corn milling	2046	6	8	8	17	6	8	9	18
Dog and cat food	2047	8	12	8	7	7	11	8	7
Prepared feeds, n.e.c.	2048	7	7	9	14	7	7	9	14
Bakery products	205	4	4	5	5	4	4	5	6
Bread, cake, and related products	2051	4	5	6	6	4	5	6	7
Cookies and crackers	2052	9	9	12	11	8	9	11	11
Frozen bakery products, except bread	2053	3	6	4	6	4	7	5	7
Sugar and confectionery products	206	4	5	5	11	4	4	6	9
Raw cane sugar	2061	8	6	12	9	8	6	12	9
Cane sugar refining	2062	4	9	14	7	4	9	15	7
Beet sugar	2063	5	5	7	7	5	5	7	7
Candy and other confectionery products	2064	8	10	10	23	8	8	11	19
Chocolate and cocoa products	2066	8	8	8	9	8	9	9	10
Chewing gum	2067	14	12	18	9	14	14	17	7
Salted and roasted nuts and seeds	2068	11	14	12	14	11	14	12	14

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Fats and oils	207	3	3	5	6	3	3	5	6
Cottonseed oil mills	2074	5	9	8	15	5	9	8	15
Soybean oil mills	2075	9	10	11	9	9	10	12	9
Vegetable oil mills, n.e.c.	2076	7	5	12	11	7	5	12	11
Animal and marine fats and oils	2077	5	5	9	11	6	5	9	11
Edible fats and oils, n.e.c.	2079	6	8	9	9	6	8	9	9
Beverages	208	2	4	3	4	2	4	3	4
Malt beverages	2082	4	4	6	3	5	5	7	4
Malt	2083	5	3	10	11	6	4	10	12
Wines, brandy, and brandy spirits	2084	6	8	8	10	6	8	8	11
Distilled and blended liquors	2085	6	10	6	9	6	10	6	9
Bottled and canned soft drinks	2086	3	5	4	6	3	5	5	6
Flavoring extracts and syrups, n.e.c.	2087	7	8	10	11	7	8	10	10
Miscellaneous food and kindred products	209	3	4	4	6	3	4	4	6
Canned and cured fish and seafoods	2091	7	9	9	10	7	8	10	10
Fresh or frozen prepared fish	2092	6	8	5	10	6	9	5	11
Roasted coffee	2095	14	19	14	26	14	19	14	18
Potato chips and similar snacks	2096	5	6	7	10	6	6	7	10
Macaroni and spaghetti	2098	10	4	18	4	10	4	19	4
Food preparations, n.e.c.	2099	8	9	10	13	8	9	11	13
Tobacco products	21	3	3	3	5	3	3	3	4
Cigars	212	14	19	20	20	14	20	20	20
Tobacco stemming and redrying	214	8	9	8	14	8	9	8	14
Textile mill products	22	2	3	3	4	2	3	3	4
Broadwoven fabric mills, cotton	221	10	13	11	12	10	13	11	12
Broadwoven fabric mills, manmade	222	8	10	9	11	8	10	9	11
Broadwoven fabric mills, wool	223	6	7	8	7	6	7	8	8
Narrow fabric mills	224	8	11	9	20	8	11	9	20
Knitting mills	225	4	5	6	8	5	5	6	9
Women's hosiery, except socks	2251	19	16	28	31	21	17	29	34
Hosiery, n.e.c.	2252	12	13	15	17	13	13	16	17
Knit outerwear mills	2253	10	7	16	25	10	8	17	27
Knit underwear mills	2254	9	14	13	12	10	14	13	15
Weft knit fabric mills	2257	10	11	12	15	10	11	12	16
Lace and warp knit fabric mills	2258	9	10	12	16	9	10	12	14
Knitting mills, n.e.c.	2259	1	2	1	6	1	2	1	7
Textile finishing, except wool	226	4	4	5	6	4	4	4	6
Finishing plants, cotton	2261	5	6	6	10	5	6	5	10
Finishing plants, manmade	2262	6	8	8	11	6	8	8	10
Finishing plants, n.e.c.	2269	11	10	12	10	10	10	11	11
Carpets and rugs	227	8	11	9	15	8	11	9	15
Yarn and thread mills	228	6	9	7	14	6	9	7	11
Yarn spinning mills	2281	8	12	9	18	8	12	9	14
Throwing and winding mills	2282	9	9	12	9	9	9	12	10
Thread mills	2284	8	13	8	17	8	13	8	18
Miscellaneous textile goods	229	4	6	5	7	4	6	5	7
Coated fabrics, not rubberized	2295	10	14	11	16	11	15	12	18
Nonwoven fabrics	2297	8	12	9	11	9	12	9	11
Textile goods, n.e.c.	2299	8	10	9	12	8	11	9	12
Apparel and other textile products	23	2	3	3	5	2	3	3	6

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Men's and boys' suits and coats	231	11	8	15	14	12	9	16	19
Men's and boys' furnishings	232	3	4	3	5	3	4	3	5
Men's and boys' shirts	2321	5	6	6	8	5	6	6	9
Men's and boys' underwear and nightwear	2322	7	7	8	19	7	6	10	18
Men's and boys' trousers and slacks	2325	6	7	6	8	6	8	6	7
Men's and boys' work clothing	2326	10	10	11	14	8	11	10	16
Men's and boys' clothing, n.e.c.	2329	7	9	8	13	8	10	8	12
Women's and misses' outerwear	233	8	12	8	22	8	12	8	24
Women's and misses' blouses and shirts	2331	16	17	20	23	17	18	20	25
Women's, junior's, and misses' dresses	2335	19	35	19	48	20	36	19	49
Women's and misses' suits and coats	2337	13	15	15	45	13	16	15	52
Women's and misses' outerwear, n.e.c.	2339	12	17	11	32	12	17	11	34
Women's and children's undergarments	234	7	9	7	15	8	7	8	11
Women's and children's underwear	2341	8	11	9	17	7	8	9	13
Bras, girdles, and allied garments	2342	11	11	13	19	11	12	13	20
Hats, caps, and millinery	235	12	11	16	14	14	14	19	18
Girls' and children's outerwear	236	10	9	13	9	10	9	13	10
Girls' and children's dresses, blouses	2361	11	11	15	13	12	12	15	17
Girls' and children's outerwear, n.e.c.	2369	14	13	20	11	15	13	20	12
Miscellaneous apparel and accessories	238	7	8	8	11	7	9	8	12
Robes and dressing gowns	2384	13	16	14	18	14	16	14	18
Waterproof outerwear	2385	11	14	15	22	13	17	16	32
Miscellaneous fabricated textile products	239	4	4	6	9	4	4	6	7
Curtains and draperies	2391	12	10	19	12	12	10	19	13
Housefurnishings, n.e.c.	2392	7	9	9	17	7	9	10	19
Textile bags	2393	15	12	21	31	15	12	22	38
Canvas and related products	2394	8	11	9	16	8	12	9	13
Pleating and stitching	2395	19	14	32	23	21	15	35	21
Automotive and apparel trimmings	2396	10	11	12	24	11	10	13	15
Fabricated textile products, n.e.c.	2399	7	7	8	6	7	8	9	8
Paper and allied products	26	2	2	2	3	2	2	2	3
Pulp mills	261	5	7	6	8	5	7	6	8
Paper mills	262	4	6	4	7	4	6	5	6
Paperboard mills	263	4	7	5	7	4	7	5	7
Paperboard containers and boxes	265	3	3	3	4	3	3	3	4
Setup paperboard boxes	2652	9	11	11	13	9	11	11	13
Corrugated and solid fiber boxes	2653	4	5	5	6	4	5	5	6
Fiber cans, drums and similar products	2655	8	12	10	13	9	12	10	13
Sanitary food containers	2656	7	9	8	9	7	9	8	9
Folding paperboard boxes	2657	5	6	6	9	5	6	6	10
Miscellaneous converted paper products	267	3	3	4	4	3	3	4	4
Paper coated and laminated, packaging	2671	11	12	15	12	11	13	16	11
Bags: plastics, laminated, and coated	2673	8	7	8	8	7	7	9	8
Bags: uncoated paper and multiwall	2674	5	6	6	8	5	6	6	7
Die-cut paper and board	2675	10	11	15	12	11	12	15	13
Sanitary paper products	2676	9	12	10	12	9	13	11	13
Envelopes	2677	6	7	8	10	6	7	9	9
Stationery products	2678	12	14	14	14	12	15	14	15
Converted paper products, n.e.c.	2679	7	8	8	10	7	8	9	11
Printing and publishing	27	3	3	3	4	3	3	3	4
Newspapers	271	6	6	7	6	6	7	8	6

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Periodicals	272	14	16	21	17	15	17	21	18
Books	273	8	11	9	11	5	10	9	11
Book publishing	2731	14	17	17	15	14	16	17	17
Book printing	2732	8	11	9	15	8	11	10	16
Miscellaneous publishing	274	14	20	15	17	14	20	15	18
Commercial printing	275	4	4	4	7	4	5	5	7
Commercial printing, lithographic	2752	4	6	5	9	4	6	5	10
Commercial printing, gravure	2754	4	6	5	7	5	7	6	8
Commercial printing, n.e.c.	2759	7	8	9	10	8	9	9	11
Manifold business forms	276	10	9	12	12	10	9	12	11
Greeting cards	277	5	8	8	11	6	7	9	12
Blankbooks and bookbinding	278	6	8	8	9	6	8	8	10
Blankbooks and looseleaf binders	2782	7	8	10	12	7	8	11	12
Bookbinding and related work	2789	10	15	11	14	11	15	12	15
Printing trade services	279	17	22	19	-	17	22	19	-
Typesetting	2791	19	27	23	29	21	27	23	29
Platemaking services	2796	19	34	28	-	25	34	28	-
Chemicals and allied products	28	2	2	2	4	2	2	2	4
Industrial inorganic chemicals	281	7	9	9	15	7	8	8	11
Alkalies and chlorine	2812	13	13	15	12	14	13	16	13
Industrial gases	2813	16	16	25	31	17	17	28	31
Inorganic pigments	2816	11	11	15	6	13	12	16	7
Industrial inorganic chemicals, n.e.c.	2819	10	12	12	22	9	12	11	14
Plastics materials and synthetics	282	5	6	5	7	5	7	5	8
Plastics materials and resins	2821	6	10	7	11	8	10	8	12
Synthetic rubber	2822	9	11	10	9	9	12	11	10
Organic fibers, noncellulosic	2824	9	9	9	8	11	12	11	9
Drugs	283	6	6	7	7	6	6	7	7
Medicinals and botanicals	2833	7	10	9	9	8	10	10	9
Pharmaceutical preparations	2834	7	8	8	9	7	8	9	9
Diagnostic substances	2835	12	8	16	14	11	8	16	16
Biological products except diagnostic	2836	8	9	12	12	8	8	13	11
Soap, cleaners, and toilet goods	284	4	5	6	9	5	5	6	10
Polishes and sanitation goods	2842	8	10	11	13	8	10	11	13
Surface active agents	2843	14	17	18	22	14	17	19	22
Toilet preparations	2844	7	8	9	18	7	8	9	20
Paints and allied products	285	7	9	7	8	7	10	7	8
Industrial organic chemicals	286	6	8	7	13	6	8	7	14
Gum and wood chemicals	2861	8	13	14	21	9	13	14	21
Cyclic crudes and intermediates	2865	8	9	9	10	8	9	9	10
Industrial organic chemicals, n.e.c.	2869	8	11	9	17	8	11	9	18
Agricultural chemicals	287	6	8	7	12	6	8	8	12
Nitrogenous fertilizers	2873	15	26	15	34	15	26	15	34
Phosphatic fertilizers	2874	15	15	20	19	15	15	22	19
Fertilizers, mixing only	2875	11	15	15	28	11	15	15	29
Agricultural chemicals, n.e.c.	2879	9	13	13	16	10	12	14	14
Miscellaneous chemical products	289	5	6	5	14	5	6	5	14
Adhesives and sealants	2891	8	8	9	10	7	8	9	10
Explosives	2892	14	15	17	27	14	16	17	33
Printing ink	2893	9	13	10	45	9	13	11	46
Chemical preparations, n.e.c.	2899	8	10	9	16	8	10	9	16

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Petroleum and coal products	29	7	7	8	8	8	7	7	8
Petroleum refining	291	10	11	12	11	9	11	10	11
Asphalt paving and roofing materials	295	5	6	8	12	5	6	8	12
Asphalt paving mixtures and blocks	2951	9	11	11	17	9	11	11	17
Asphalt felts and coatings	2952	6	7	10	16	6	7	10	16
Miscellaneous petroleum and coal products	299	12	10	20	10	7	10	8	10
Lubricating oils and greases	2992	8	11	9	11	8	11	9	11
Rubber and miscellaneous plastics products	30	3	4	4	9	3	4	4	11
Tires and inner tubes	301	5	7	5	8	6	7	5	8
Rubber and plastics footwear	302	14	16	15	20	13	15	14	15
Hose and belting and gaskets and packing	305	4	5	5	6	4	5	6	6
Rubber and plastics hose and belting	3052	5	8	8	8	5	8	8	8
Gaskets, packing and sealing devices	3053	6	8	8	9	6	8	8	9
Fabricated rubber products, n.e.c.	306	3	4	5	6	3	4	5	6
Mechanical rubber goods	3061	4	5	6	8	4	5	7	7
Fabricated rubber products, n.e.c.	3069	5	6	6	11	5	6	7	10
Miscellaneous plastics products, n.e.c.	308	4	5	5	13	4	5	6	16
Unsupported plastics film and sheet	3081	5	7	6	9	5	7	6	10
Unsupported plastics profile shapes	3082	6	7	6	8	6	7	6	8
Laminated plastics plate and sheet	3083	7	9	8	8	7	9	8	9
Plastics pipe	3084	5	7	8	11	5	7	8	10
Plastics bottles	3085	4	5	6	7	4	5	6	6
Plastics foam products	3086	4	5	6	6	5	5	6	6
Custom compound purchased resins	3087	5	5	7	7	5	5	7	6
Plastics plumbing fixtures	3088	8	10	11	13	9	10	11	15
Plastics products, n.e.c.	3089	6	9	9	20	7	9	9	25
Leather and leather products	31	3	3	4	5	3	3	4	5
Leather tanning and finishing	311	5	5	7	12	4	4	7	13
Footwear cut stock	313	8	7	17	16	10	8	19	16
Footwear, except rubber	314	5	5	6	7	4	5	5	6
House slippers	3142	8	8	11	7	10	9	13	9
Men's footwear, except athletic	3143	5	6	7	6	6	7	7	8
Women's footwear, except athletic	3144	12	14	14	22	11	11	13	17
Footwear, except rubber, n.e.c.	3149	5	7	7	8	5	8	6	11
Luggage	316	13	10	20	7	15	11	22	7
Handbags and personal leather goods	317	7	8	8	15	7	9	8	16
Personal leather goods, n.e.c.	3172	10	10	13	20	10	11	13	21
Transportation and public utilities		1	1	2	2	1	1	2	2
Railroad transportation	40	2	3	2	3	2	3	2	3
Local and interurban passenger transit	41	4	5	6	9	4	5	6	8
Local and suburban transportation	411	6	7	9	11	6	7	9	11
Taxicabs	412	12	15	15	23	12	15	15	23
School buses	415	10	11	11	17	9	11	11	17
Trucking and warehousing	42	2	2	3	4	2	2	3	4
Trucking and courier services, except air	421	2	3	3	4	2	3	3	4
Public warehousing and storage	422	5	5	6	7	5	5	6	8
Water transportation	44	5	5	6	5	5	5	6	5

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, [illegible]—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Water transportation of freight, n.e.c.	444	17	21	22	24	17	21	21	24
Water transportation services	448	5	5	9	6	5	5	10	6
Transportation by air	45	3	3	4	4	3	3	4	4
Air transportation, scheduled	451	3	3	4	4	3	4	4	4
Air transportation, nonscheduled	452	8	8	11	13	8	8	11	13
Airports, flying fields, and services	458	5	6	7	9	5	6	7	9
Pipelines, except natural gas	46	12	17	14	30	12	17	14	30
Transportation services	47	10	12	13	13	10	12	14	13
Freight transportation arrangement	473	11	13	14	15	11	13	15	15
Communications	48	7	6	8	10	7	6	8	9
Telephone communications	481	13	11	18	15	13	11	18	14
Telegraph and other communications	482	18	34	20	24	19	34	21	24
Radio and television broadcasting	483	11	13	14	30	12	13	14	33
Cable and other pay tv services	484	8	6	8	10	5	6	7	10
Communication services, n.e.c.	489	15	23	14	12	16	24	14	13
Electric, gas, and sanitary services	49	2	3	3	4	2	3	3	4
Electric services	491	3	4	5	6	3	4	5	6
Gas production and distribution	492	7	8	9	11	7	8	9	11
Combination utility services	493	6	7	10	8	6	7	10	8
Water supply	494	6	8	7	12	6	8	8	12
Sanitary services	495	5	5	7	7	5	6	7	8
Irrigation systems	497	11	10	16	12	11	11	15	12
Wholesale and retail trade		1	1	1	2	1	1	1	2
Wholesale trade		2	2	3	4	2	2	3	4
Wholesale trade durable goods	50	3	3	3	5	3	3	3	5
Motor vehicles, parts, and supplies	501	5	6	7	11	5	6	7	12
Furniture and homefurnishings	502	18	23	20	30	18	23	20	30
Lumber and construction materials	503	6	7	8	13	6	7	8	13
Professional and commercial equipment	504	11	12	14	17	11	12	15	18
Metals and minerals, except petroleum	505	7	7	8	10	7	7	8	10
Electrical goods	506	9	10	10	23	9	10	10	24
Hardware, plumbing and heating equipment	507	12	16	15	40	12	15	16	40
Machinery, equipment, and supplies	508	6	7	7	11	6	7	7	11
Miscellaneous durable goods	509	9	10	11	14	9	10	11	14
Wholesale trade nondurable goods	51	3	3	5	5	3	3	4	5
Paper and paper products	511	11	13	14	15	11	13	14	15
Drugs, proprietaries, and sundries	512	11	15	11	16	12	15	14	16
Groceries and related products	514	6	5	10	6	4	4	7	6
Farm-product raw materials	515	6	8	7	12	6	8	7	12
Petroleum and petroleum products	517	14	15	19	41	14	15	19	42
Beer, wine, and distilled beverages	518	4	5	6	9	4	5	6	9
Miscellaneous nondurable goods	519	9	10	11	16	9	10	11	16
Retail trade		1	2	2	3	1	2	2	2
Building materials and garden supplies	52	3	3	4	6	3	3	4	6
Lumber and other building materials	521	3	4	4	6	3	4	4	6
Paint, glass, and wallpaper stores	523	19	21	28	29	20	21	28	29
Hardware stores	525	10	10	13	25	10	10	13	25
Retail nurseries and garden stores	526	13	16	16	31	13	17	16	34
General merchandise stores	53	3	3	3	4	3	3	3	4
Department stores	531	3	3	4	4	3	3	4	4
Variety stores	533	7	10	8	21	7	10	8	22
Miscellaneous general merchandise stores	539	6	9	13	9	8	9	13	9
Food stores	54	3	4	3	5	3	4	3	5
Grocery stores	541	3	4	3	5	3	4	3	5

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, [illegible]—Continued

Industry	SIC code	Injuries and illnesses: Total cases	Injuries and illnesses: Lost workday cases	Injuries and illnesses: Nonfatal cases without lost workdays	Injuries and illnesses: Lost workdays	Injuries: Total cases	Injuries: Lost workday cases	Injuries: Nonfatal cases without lost workdays	Injuries: Lost workdays
Automotive dealers and service stations	55	3	4	4	8	3	4	4	8
New and used car dealers	551	4	5	4	10	4	5	4	10
Auto and home supply stores	553	5	5	6	12	5	5	6	12
Gasoline service stations	554	10	12	12	23	10	12	12	23
Boat dealers	555	14	19	15	21	14	19	15	21
Recreational vehicle dealers	556	15	21	17	27	15	21	17	27
Apparel and accessory stores	56	7	8	8	17	7	8	8	17
Women's clothing stores	562	10	14	12	20	10	14	12	20
Family clothing stores	565	11	14	12	22	11	14	12	21
Shoe stores	566	18	25	18	-	18	25	18	-
Furniture and homefurnishings stores	57	6	7	7	13	6	7	7	13
Furniture and homefurnishings stores	571	7	9	8	18	7	9	8	18
Household appliance stores	572	12	14	15	22	12	14	15	22
Radio, television, and computer stores	573	15	20	17	48	15	20	17	48
Eating and drinking places	58	3	4	3	6	3	4	3	6
Miscellaneous retail	59	6	7	8	12	6	7	7	13
Drug stores and proprietary stores	591	10	13	12	18	10	13	11	18
Miscellaneous shopping goods stores	594	13	17	14	29	13	17	14	30
Nonstore retailers	596	11	11	15	25	11	11	15	21
Finance, insurance, and real estate		3	5	4	7	3	5	4	7
Depository institutions	60	6	7	8	14	6	7	8	15
Commercial banks	602	8	9	10	19	8	9	10	20
Savings institutions	603	11	12	15	23	11	12	14	25
Insurance carriers	63	7	7	9	15	7	7	9	16
Life insurance	631	12	14	14	34	13	14	14	37
Medical service and health insurance	632	9	9	13	15	10	9	14	19
Fire, marine, and casualty insurance	633	11	11	15	25	12	11	15	19
Pension, health, and welfare funds	637	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])
Insurance agents, brokers, and service	64	10	14	13	28	10	14	12	27
Real estate	65	5	8	6	11	5	8	8	11
Real estate operators and lessors	651	6	7	8	13	6	7	8	13
Real estate agents and managers	653	10	12	11	28	10	12	11	29
Subdividers and developers	655	11	11	14	25	10	11	13	25
Holding and other investment offices	67	12	15	15	23	12	15	15	23
Holding offices	671	17	22	20	30	17	20	21	31
Services		2	2	2	3	2	2	2	3
Hotels and other lodging places	70	3	4	4	5	3	4	4	5
Hotels and motels	701	2	3	4	5	3	3	4	5
Personal services	72	5	7	7	16	5	7	8	16
Laundry, cleaning, and garment services	721	6	8	7	16	6	8	7	17
Miscellaneous personal services	729	16	24	28	22	20	24	28	22
Business services	73	5	6	6	10	5	6	6	10
Services to buildings	734	9	10	11	15	9	10	11	15
Personnel supply services	736	8	10	9	16	8	10	9	16
Miscellaneous business services	738	9	10	11	23	9	10	11	23
Auto repair, services, and parking	75	4	5	5	9	4	5	5	9
Automotive rentals, no drivers	751	6	7	7	12	6	7	7	12
Automobile parking	752	11	16	13	16	11	15	13	17
Automotive repair shops	753	6	8	7	15	6	8	7	15
Automotive services, except repair	754	11	12	15	22	11	12	15	22
Miscellaneous repair services	76	4	5	6	9	4	5	6	9

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, [illegible]—Continued

Industry	SIC code[1]	Relative standard error (percent)[2]							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Electrical repair shops	762	9	9	12	17	9	9	12	17
Miscellaneous repair shops	769	5	6	7	11	5	6	7	10
Amusement and recreation services	79	7	6	10	9	7	6	10	9
Bowling centers	793	16	19	19	38	16	19	19	38
Miscellaneous amusement, recreation services	799	4	5	6	9	4	5	6	9
Health services	80	3	3	4	5	3	3	4	4
Offices of osteopathic physicians	803	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Nursing and personal care facilities	805	3	3	4	4	3	3	4	4
Hospitals	806	3	3	6	4	4	3	6	4
Legal services	81	11	13	15	28	11	13	15	23
Educational services	82	5	6	6	13	5	6	7	13
Elementary and secondary schools	821	15	17	19	24	15	17	19	24
Colleges and universities	822	4	4	4	5	4	4	5	5
Libraries	823	12	13	12	14	13	13	12	14
Social services	83	4	5	6	8	4	5	6	8
Individual and family services	832	10	10	16	15	11	11	16	15
Job training and related services	833	8	10	10	20	9	10	11	21
Child day care services	835	19	21	34	31	21	21	35	31
Residential care	836	6	7	9	10	6	7	9	10
Social services, n.e.c.	839	17	18	19	43	17	18	19	43
Museums, botanical, zoological gardens	84	13	13	19	20	13	13	20	20
Museums and art galleries	841	19	17	29	28	19	17	31	28
Botanical and zoological gardens	842	18	20	24	20	19	21	25	21
Engineering and management services	87	8	9	8	14	8	9	9	15
Engineering and architectural services	871	8	11	10	14	9	11	10	14
Accounting, auditing, and bookkeeping	872	19	24	29	41	22	25	29	41
Research and testing services	873	10	12	13	18	10	12	13	18

[1] *Standard Industrial Classification Manual*, 1987 Edition.

[2] See discussion on reliability of estimates.

[3] Relative standard error of zero or less than 0.5.

n.e.c. = not elsewhere classified

NOTE: Dashes indicate that data do not meet publication guidelines. Relative standard errors were not calculated for coal and lignite mining (SIC 12), metal and nonmetal mining (SIC 10 and 14).

Table A-2. Relative standard errors for measures of occupational illnesses by industry, 1989

Industry	SIC code [1]	Relative standard error (percent) [2]
		Total cases
Private sector		1
Agriculture, forestry, and fishing		9
Agricultural production	01-02	10
Agricultural services	07	17
Forestry	08	16
Mining		4
Metal mining	10	(3)
Coal mining	12	(3)
Oil and gas extraction	13	13
Nonmetallic minerals, except fuels	14	(3)
Construction		6
General building contractors	15	10
Residential building construction	152	15
Operative builders	153	35
Nonresidential building construction	154	14
Heavy construction, except building	16	10
Highway and street construction	161	19
Heavy construction, except highway	162	12
Special trade contractors	17	9
Plumbing, heating, air-conditioning	171	22
Painting and paper hanging	172	39
Electrical work	173	22
Masonry, stonework, and plastering	174	19
Carpentry and floor work	175	34
Roofing, siding, and sheet metal work	176	42
Concrete work	177	21
Water well drilling	178	33
Miscellaneous special trade contractors	179	18
Manufacturing		1
Durable goods		1
Lumber and wood products	24	6
Logging	241	25
Sawmills and planing mills	242	10
Millwork, plywood and structural members	243	10
Wood containers	244	30
Wood buildings and mobile homes	245	12
Miscellaneous wood products	249	11
Furniture and fixtures	25	5
Household furniture	251	7
Office furniture	252	7
Public building and related furniture	253	16
Partitions and fixtures	254	14
Miscellaneous furniture and fixtures	259	13
Stone, clay, and glass products	32	4
Flat glass	321	3
Glass and glassware, pressed or blown	322	9
Products of purchased glass	323	7
Structural clay products	325	14
Pottery and related products	326	12
Concrete, gypsum, and plaster products	327	11
Cut stone and stone products	328	46
Miscellaneous nonmetallic mineral products	329	9
Primary metal industries	33	2
Blast furnace and basic steel products	331	5
Iron and steel foundries	332	5
Primary nonferrous metals	333	7
Secondary nonferrous metals	334	14
Nonferrous rolling and drawing	335	4
Nonferrous foundries (castings)	336	4
Miscellaneous primary metal products	339	15
Fabricated metal products	34	3
Metal cans and shipping containers	341	17
Cutlery, handtools, and hardware	342	6
Plumbing and heating, except electric	343	3
Fabricated structural metal products	344	9
Screw machine products, bolts, etc.	345	16
Metal forgings and stampings	346	6
Metal services, n.e.c.	347	11
Ordnance and accessories, n.e.c.	348	7
Miscellaneous fabricated metal products	349	8
Industrial machinery and equipment	35	3
Engines and turbines	351	12
Farm and garden machinery	352	7
Construction and related machinery	353	6
Metalworking machinery	354	8
Special industry machinery	355	10
General industrial machinery	356	7
Computer and office equipment	357	15
Refrigeration and service machinery	358	6
Industrial machinery, n.e.c.	359	10
Electronic and other electric equipment	36	3
Electric distribution equipment	361	12
Electrical industrial apparatus	362	9
Household appliances	363	3
Electric lighting and wiring equipment	364	10
Household audio and video equipment	365	11
Communications equipment	366	12
Electronic components and accessories	367	7
Miscellaneous electrical equipment and supplies	369	7
Transportation equipment	37	2
Motor vehicles and equipment	371	2
Aircraft and parts	372	3
Ship and boat building and repairing	373	2
Railroad equipment	374	6
Motorcycles, bicycles, and parts	375	8
Guided missiles, space vehicles, parts	376	8
Miscellaneous transportation equipment	379	6
Instruments and related products	38	5
Search and navigation equipment	381	8
Measuring and controlling devices	382	7
Medical instruments and supplies	384	10
Ophthalmic goods	385	9
Photographic equipment and supplies	386	18
Watches, clocks, watchcases and parts	387	9
Miscellaneous manufacturing industries	39	5
Jewelry, silverware, and plated ware	391	19
Musical instruments	393	12
Toys and sporting goods	394	9
Pens, pencils, office, and art supplies	395	5
Costume jewelry and notions	396	25
Miscellaneous manufactures	399	8
Nondurable goods		2
Food and kindred products	20	4
Meat products	201	6
Dairy products	202	10
Preserved fruits and vegetables	203	9
Grain mill products	204	12
Bakery products	205	14
Sugar and confectionery products	206	23
Fats and oils	207	12

See footnotes at end of table.

Table A-2. Relative standard errors for measures of occupational illnesses by industry, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]
		Total cases
Beverages	208	11
Miscellaneous food and kindred products	209	6
Tobacco products	21	10
Cigars	212	1
Tobacco stemming and redrying	214	25
Textile mill products	22	9
Broadwoven fabric mills, cotton	221	37
Broadwoven fabric mills, manmade	222	19
Broadwoven fabric mills, wool	223	14
Narrow fabric mills	224	30
Knitting mills	225	13
Textile finishing, except wool	226	16
Carpets and rugs	227	26
Yarn and thread mills	228	19
Miscellaneous textile goods	229	12
Apparel and other textile products	23	6
Men's and boys' suits and coats	231	12
Men's and boys' furnishings	232	8
Women's and misses' outerwear	233	39
Women's and children's undergarments	234	-
Hats, caps, and millinery	235	31
Girls' and children's outerwear	236	22
Miscellaneous apparel and accessories	238	15
Miscellaneous fabricated textile products	239	11
Paper and allied products	26	5
Pulp mills	261	16
Paper mills	262	8
Paperboard mills	263	16
Paperboard containers and boxes	265	10
Miscellaneous converted paper products	267	10
Printing and publishing	27	7
Newspapers	271	15
Periodicals	272	17
Books	273	20
Miscellaneous publishing	274	28
Commercial printing	275	11
Manifold business forms	276	-
Greeting cards	277	7
Blankbooks and bookbinding	278	13
Printing trade services	279	-
Chemicals and allied products	28	6
Industrial inorganic chemicals	281	31
Plastics materials and synthetics	282	7
Drugs	283	12
Soap, cleaners, and toilet goods	284	10
Paints and allied products	285	18
Industrial organic chemicals	286	12
Agricultural chemicals	287	18
Miscellaneous chemical products	289	13
Petroleum and coal products	29	26
Petroleum refining	291	26
Asphalt paving and roofing materials	295	30
Miscellaneous petroleum and coal products	299	-
Rubber and miscellaneous plastics products	30	5
Tires and inner tubes	301	10
Rubber and plastics footwear	302	25
Hose and belting and gaskets and packing	305	11
Fabricated rubber products, n.e.c.	306	8
Miscellaneous plastics products, n.e.c.	308	7
Leather and leather products	31	9
Leather tanning and finishing	311	18
Footwear cut stock	313	59
Footwear, except rubber	314	11
Luggage	316	12
Handbags and personal leather goods	317	21
Transportation and public utilities		7
Railroad transportation	40	8
Local and interurban passenger transit	41	21
Trucking and warehousing	42	15
Water transportation	44	24
Transportation by air	45	8
Pipelines, except natural gas	46	39
Transportation services	47	58
Communications	48	30
Electric, gas, and sanitary services	49	10
Wholesale and retail trade		14
Wholesale trade		27
Wholesale trade durable goods	50	25
Wholesale trade nondurable goods	51	39
Retail trade		14
Building materials and garden supplies	52	25
General merchandise stores	53	22
Food stores	54	18
Automotive dealers and service stations	55	35
Apparel and accessory stores	56	-
Furniture and homefurnishings stores	57	-
Eating and drinking places	58	39
Miscellaneous retail	59	45
Finance, insurance, and real estate		14
Depository institutions	60	29
Insurance carriers	63	21
Insurance agents, brokers, and service	64	51
Real estate	65	25
Holding and other investment offices	67	34
Services		6
Hotels and other lodging places	70	17
Personal services	72	50
Business services	73	24
Auto repair, services, and parking	75	27
Miscellaneous repair services	76	20
Amusement and recreation services	79	16
Health services	80	9
Legal services	81	48
Educational services	82	11
Social services	83	15
Museums, botanical, zoological gardens	84	24
Engineering and management services	87	35

[1] *Standard Industrial Classification Manual*, 1987 Edition.

[2] See discussion on reliability of estimates.

[3] Relative standard error of zero or less than 0.5.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1989

Industry	SIC code [1]	Relative standard error (percent) [2]						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Private sector		2	7	5	18	4	2	5
Agriculture, forestry, and fishing		12	44	25	31	28	25	22
Agricultural production	01-02	13	46	43	44	29	29	20
Agricultural services	07	20	-	39	45	-	-	54
Forestry	08	24	(3)	30	(3)	32	29	37
Mining		22	2	38	2	25	2	13
Metal mining	10	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Coal mining	12	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Oil and gas extraction	13	33	55	45	15	38	22	15
Nonmetallic minerals, except fuels	14	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Construction		11	28	17	18	13	14	12
General building contractors	15	17	-	41	47	28	31	17
Residential building construction	152	24	-	-	-	-	56	20
Operative builders	153	54	(3)	21	(3)	(3)	(3)	-
Nonresidential building construction	154	24	-	45	41	29	28	36
Heavy construction, except building	16	15	-	20	38	19	30	34
Highway and street construction	161	28	-	31	53	30	-	54
Heavy construction, except highway	162	18	-	24	48	24	34	41
Special trade contractors	17	19	29	25	18	20	19	19
Plumbing, heating, air-conditioning	171	44	-	-	31	33	-	49
Painting and paper hanging	172	-	-	-	19	-	-	-
Electrical work	173	37	-	43	-	-	32	52
Masonry, stonework, and plastering	174	37	54	45	-	59	26	51
Carpentry and floor work	175	-	(3)	-	(3)	27	-	57
Roofing, siding, and sheet metal work	176	-	-	-	-	-	54	-
Concrete work	177	35	45	-	-	-	42	26
Water well drilling	178	48	(3)	37	-	42	-	-
Miscellaneous special trade contractors	179	31	47	54	-	57	51	34
Manufacturing		2	5	3	5	4	1	3
Durable goods		2	4	4	5	4	1	3
Lumber and wood products	24	8	18	24	27	9	7	18
Logging	241	30	(3)	-	43	39	24	-
Sawmills and planing mills	242	21	30	25	22	12	12	24
Millwork, plywood and structural members	243	9	32	17	57	18	13	46
Wood containers	244	44	43	(3)	(3)	57	45	-
Wood buildings and mobile homes	245	20	(3)	22	-	33	15	50
Miscellaneous wood products	249	16	34	23	31	33	14	26
Furniture and fixtures	25	9	15	25	37	13	6	20
Household furniture	251	13	48	24	-	21	9	30
Office furniture	252	19	(3)	33	-	26	8	32
Public building and related furniture	253	23	-	50	38	31	21	31
Partitions and fixtures	254	32	(3)	-	48	32	14	54
Miscellaneous furniture and fixtures	259	21	(3)	32	15	29	11	-
Stone, clay, and glass products	32	6	41	29	19	10	4	13
Flat glass	321	7	20	1	27	8	3	1
Glass and glassware, pressed or blown	322	9	-	40	30	28	11	54
Products of purchased glass	323	11	(3)	45	(3)	33	6	43
Structural clay products	325	18	(3)	14	(3)	33	18	22
Pottery and related products	326	5	(3)	-	(3)	21	2	37
Concrete, gypsum, and plaster products	327	15	-	32	40	29	30	24
Cut stone and stone products	328	-	-	-	(3)	(3)	-	(3)
Miscellaneous nonmetallic mineral products	329	13	27	17	40	25	17	18
Primary metal industries	33	4	5	7	11	7	3	7
Blast furnace and basic steel products	331	9	13	19	8	11	6	15
Iron and steel foundries	332	7	5	18	17	20	6	9

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Primary nonferrous metals	333	11	18	13	43	11	11	19
Secondary nonferrous metals	334	27	22	55	21	32	32	39
Nonferrous rolling and drawing	335	13	29	8	36	13	4	16
Nonferrous foundries (castings)	336	6	12	14	22	23	5	23
Miscellaneous primary metal products	339	16	(3)	14	-	(3)	46	(3)
Fabricated metal products	34	4	21	14	18	7	3	11
Metal cans and shipping containers	341	20	(3)	43	26	51	22	46
Cutlery, handtools, and hardware	342	7	33	5	15	-	7	18
Plumbing and heating, except electric	343	9	(3)	(3)	19	3	9	33
Fabricated structural metal products	344	14	40	43	26	23	8	18
Screw machine products, bolts, etc.	345	17	(3)	-	(3)	56	43	58
Metal forgings and stampings	346	7	44	15	16	18	7	15
Metal services, n.e.c.	347	16	46	38	57	43	14	26
Ordnance and accessories, n.e.c.	348	12	42	10	1	30	7	16
Miscellaneous fabricated metal products	349	14	48	13	31	27	9	26
Industrial machinery and equipment	35	4	17	25	26	16	4	12
Engines and turbines	351	13	32	28	43	30	17	28
Farm and garden machinery	352	11	-	37	23	24	4	-
Construction and related machinery	353	10	(3)	21	23	15	6	42
Metalworking machinery	354	13	25	25	-	26	10	24
Special industry machinery	355	13	-	27	-	17	15	40
General industrial machinery	356	9	23	21	58	15	10	33
Computer and office equipment	357	15	-	-	12	-	14	37
Refrigeration and service machinery	358	6	(3)	-	-	24	6	20
Industrial machinery, n.e.c.	359	11	59	-	22	-	11	17
Electronic and other electric equipment	36	5	18	9	15	13	3	10
Electric distribution equipment	361	23	35	40	58	16	13	28
Electrical industrial apparatus	362	14	34	25	53	-	11	23
Household appliances	363	6	45	8	11	21	3	18
Electric lighting and wiring equipment	364	15	35	18	39	-	13	18
Household audio and video equipment	365	22	55	15	20	27	15	39
Communications equipment	366	23	17	27	41	18	13	26
Electronic components and accessories	367	9	49	15	19	18	11	18
Miscellaneous electrical equipment and supplies	369	13	25	14	25	10	6	21
Transportation equipment	37	3	4	3	4	7	2	4
Motor vehicles and equipment	371	3	27	6	8	21	3	6
Aircraft and parts	372	6	10	4	4	6	3	6
Ship and boat building and repairing	373	4	2	4	16	4	2	8
Railroad equipment	374	11	37	18	1	17	7	22
Motorcycles, bicycles, and parts	375	16	(3)	20	(3)	8	8	2
Guided missiles, space vehicles, parts	376	12	17	7	(3)	4	10	9
Miscellaneous transportation equipment	379	6	40	16	30	5	9	5
Instruments and related products	38	8	13	17	16	21	6	13
Search and navigation equipment	381	21	4	10	19	18	9	24
Measuring and controlling devices	382	12	19	33	31	43	9	22
Medical instruments and supplies	384	15	17	19	51	46	14	24
Ophthalmic goods	385	9	(3)	37	(3)	(3)	10	-
Photographic equipment and supplies	386	55	25	-	(3)	-	13	21
Watches, clocks, watchcases and parts	387	(3)	(3)	20	(3)	(3)	12	(3)
Miscellaneous manufacturing industries	39	11	15	10	17	20	6	21
Jewelry, silverware, and plated ware	391	17	-	18	(3)	14	22	58
Musical instruments	393	17	20	13	-	(3)	16	23
Toys and sporting goods	394	19	15	14	29	27	11	30
Pens, pencils, office, and art supplies	395	10	(3)	20	3	3	6	21
Costume jewelry and notions	396	19	(3)	47	26	38	44	(3)
Miscellaneous manufactures	399	14	12	19	32	36	12	35
Nondurable goods		4	12	6	17	7	3	7
Food and kindred products	20	6	36	8	17	10	5	9
Meat products	201	9	55	12	12	14	6	11
Dairy products	202	24	(3)	23	22	41	13	20
Preserved fruits and vegetables	203	12	45	18	43	17	11	16
Grain mill products	204	17	38	-	-	28	14	19
Bakery products	205	16	-	-	47	37	15	-
Sugar and confectionery products	206	14	(3)	26	-	16	27	37

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]: Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Fats and oils	207	18	50	16	57	15	21	38
Beverages	208	15	2	11	38	47	12	51
Miscellaneous food and kindred products	209	9	-	21	43	37	8	23
Tobacco products	21	8	29	14	-	10	22	1
Cigars	212	5	(3)	(3)	(3)	(3)	(3)	(3)
Tobacco stemming and redrying	214	22	29	48	-	33	33	(3)
Textile mill products	22	12	-	16	-	14	10	34
Broadwoven fabric mills, cotton	221	-	(3)	(3)	(3)	(3)	31	48
Broadwoven fabric mills, manmade	222	32	(3)	(3)	(3)	-	28	-
Broadwoven fabric mills, wool	223	30	18	45	30	18	19	48
Narrow fabric mills	224	58	(3)	30	(3)	-	22	47
Knitting mills	225	18	(3)	48	-	19	16	47
Textile finishing, except wool	226	18	-	25	-	38	19	50
Carpets and rugs	227	21	(3)	38	(3)	43	41	27
Yarn and thread mills	228	19	-	42	-	42	28	30
Miscellaneous textile goods	229	11	29	-	33	28	16	9
Apparel and other textile products	23	11	42	22	-	58	7	23
Men's and boys' suits and coats	231	21	(3)	39	(3)	44	13	38
Men's and boys' furnishings	232	9	43	50	-	40	9	19
Women's and misses' outerwear	233	-	-	49	-	-	48	53
Women's and children's undergarments	234	28	(3)	43	(3)	33	-	-
Hats, caps, and millinery	235	49	(3)	59	(3)	(3)	30	(3)
Girl's and children's outerwear	236	48	(3)	59	-	-	23	58
Miscellaneous apparel and accessories	238	23	-	7	(3)	(3)	13	-
Miscellaneous fabricated textile products	239	17	(3)	13	-	16	13	-
Paper and allied products	26	8	29	11	29	22	7	16
Pulp mills	261	16	(3)	34	(3)	28	22	28
Paper mills	262	12	-	15	39	35	11	37
Paperboard mills	263	24	(3)	27	(3)	30	28	24
Paperboard containers and boxes	265	20	(3)	42	-	-	13	22
Miscellaneous converted paper products	267	17	14	27	37	33	11	20
Printing and publishing	27	19	-	26	53	18	7	26
Newspapers	271	43	(3)	-	-	-	15	-
Periodicals	272	41	(3)	48	(3)	11	19	39
Books	273	-	(3)	-	(3)	20	20	19
Miscellaneous publishing	274	22	(3)	-	34	(3)	34	-
Commercial printing	275	24	(3)	47	-	29	12	42
Manifold business forms	276	37	(3)	-	(3)	(3)	-	(3)
Greeting cards	277	2	(3)	2	(3)	2	8	2
Blankbooks and bookbinding	278	53	-	29	-	36	15	32
Printing trade services	279	(3)	(3)	-	(3)	(3)	-	-
Chemicals and allied products	28	10	16	16	18	14	8	9
Industrial inorganic chemicals	281	-	38	-	58	51	27	22
Plastics materials and synthetics	282	18	11	10	30	9	10	12
Drugs	283	14	-	34	15	59	19	19
Soap, cleaners, and toilet goods	284	15	58	23	23	28	19	23
Paints and allied products	285	23	-	27	28	47	38	43
Industrial organic chemicals	286	16	41	18	37	25	24	23
Agricultural chemicals	287	18	43	33	47	13	38	25
Miscellaneous chemical products	289	18	39	30	27	35	25	29
Petroleum and coal products	29	15	33	-	-	20	-	52
Petroleum refining	291	19	33	32	-	21	-	52
Asphalt paving and roofing materials	295	32	(3)	(3)	-	(3)	-	(3)
Miscellaneous petroleum and coal products	299	34	(3)	-	33	44	55	(3)
Rubber and miscellaneous plastics products	30	9	38	10	19	19	7	13
Tires and inner tubes	301	22	38	21	43	50	10	27
Rubber and plastics footwear	302	34	57	41	(3)	(3)	27	-
Hose and belting and gaskets and packing	305	14	(3)	38	-	28	16	26
Fabricated rubber products, n.e.c.	306	13	57	31	-	44	9	34
Miscellaneous plastics products, n.e.c.	308	14	45	11	19	25	9	16
Leather and leather products	31	10	(3)	23	27	25	10	22
Leather tanning and finishing	311	15	(3)	57	(3)	(3)	30	37
Footwear cut stock	313	-	(3)	-	(3)	(3)	-	(3)

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1989—Continued

Industry	SIC code [1]	Relative standard error (percent) [2]						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Footwear, except rubber	314	12	(3)	29	35	29	12	23
Luggage	316	17	(3)	45	(3)	(3)	13	(3)
Handbags and personal leather goods	317	15	(3)	57	(3)	(3)	26	(3)
Transportation and public utilities		13	23	17	26	10	15	11
Wholesale and retail trade		15	45	14	-	-	30	23
Wholesale trade		31	-	16	55	-	-	26
Retail trade		16	52	30	-	58	18	31
Finance, insurance, and real estate		29	-	42	-	26	26	21
Services		9	27	24	27	13	18	11

[1] *Standard Industrial Classification Manual*, 1987 Edition.

[2] See discussion on reliability of estimates.

[3] Relative standard error of zero or less than 0.5.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate data do not meet publication guidelines.

Table A-4. Relative standard errors for occupational injury and illness fatalities for employers with 11 employees or more by industry division, 1989

Industry	Relative standard error (percent) [1]
Private sector	12
Agriculture, forestry, and fishing	35
Mining	15
Construction	10
Manufacturing	9
Transportation and public utilities	17
Wholesale and retail trade	21
Finance, insurance, and real estate	-
Services	-

[1] See discussion on reliability of estimates.

NOTE: Dashes indicate no data reported or data that do not meet publication guidelines.

Appendix B. Definitions

The definitions of occupational injuries and illnesses and lost workdays are from *Recordkeeping Guidelines for Occupational Injuries and Illnesses.*

Recordable injuries and illnesses are:

1. Occupational deaths, regardless of the time between injury and death, or the length of the illness; or
2. Nonfatal occupational illnesses; or
3. Nonfatal occupational injuries which involve one or more of the following: Loss of consciousness, restriction of work or motion, transfer to another job, or medical treatment (other than first aid).

Occupational injury is any injury such as a cut, fracture, sprain, amputation, etc., which results from a work accident or from a single instantaneous exposure in the work environment.

Occupational illness is any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to factors associated with employment. It includes acute and chronic illnesses or disease which may be caused by inhalation, absorption, ingestion, or direct contact.

The following listing gives the categories of occupational illnesses and disorders that are used to classify recordable illnesses. For purposes of information, examples of each category are given. These are typical examples, however, and are not to be considered the complete listing of the types of illnesses and disorders that are to be counted under each category.

a. *Occupational skin diseases or disorders.* Examples: Contact dermatitis, eczema, or rash caused by primary irritants and sensitizers or poisonous plants; oil acne; chrome ulcers; chemical burns or inflammations.

b. *Dust diseases of the lungs* (pneumoconioses). Examples: Silicosis, asbestosis and other asbestos-related diseases, coal worker's pneumoconiosis, byssinosis, siderosis, and other pneumoconioses.

c. *Respiratory conditions due to toxic agents.* Examples: Pneumonitis, pharyngitis, rhinitis or acute congestion due to chemicals, dusts, gases, or fumes; farmer's lung.

d. *Poisoning (systemic effects of toxic materials).* Examples: Poisoning by lead, mercury, cadmium, arsenic, or other metals; poisoning by carbon monoxide, hydrogen sulfide, or other gases; poisoning by benzol, carbon tetrachloride, or other organic solvents; poisoning by insecticide sprays such as parathion and lead arsenate; poisoning by other chemicals such as formaldehyde, plastics, and resins.

e. *Disorders due to physical agents (other than toxic materials).* Examples: Heatstroke, sunstroke, heat exhaustion, and other effects of environmental heat; freezing, frostbite, and effects of ionizing radiation (isotopes, X-rays, radium); effects of nonionizing radiation (welding flash, ultraviolet rays, microwaves, sunburn).

f. *Disorders associated with repeated trauma.* Examples: Conditions due to repeated motion, vibration, or pressure, such as carpal tunnel syndrome; noise-induced hearing loss; synovitis, tenosynovitis, and bursitis; and Raynaud's phenomena.

g. *All other occupational illnesses.* Examples: Anthrax, brucellosis, infectious hepatitis, malignant and benign tumor, food poisoning, histoplasmosis, coccidioidomycosis.

Lost workday cases are cases which involve days away from work, or days of restricted work activity, or both.

1. *Lost workday cases involving days away from work* are those cases which result in days away from work, or a combination of days away from work and days of restricted work activity.
2. *Lost workday cases involving restricted work activity* are those cases which result in restricted work activity only.

Lost workdays—away from work are the number of workdays (consecutive or not) on which the employee would have worked but could not because of occupational injury or illness.

Lost workdays—restricted work activity are the number of workdays (consecutive or not) on which, because of injury or illness:

1. The employee was assigned to another job on a temporary basis; or

2. The employee worked at a permanent job less than full time; or

3. The employee worked at a permanently assigned job but could not perform all duties normally connected with it.

The number of days away from work or days of restricted work activity does not include the day of injury or onset of illness or any days on which the employee would not have worked even though able to work.

Incidence rates represent the number of injuries and/or illnesses or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where:

N = number of injuries and/or illnesses or lost workdays,
EH = total hours worked by all employees during the calendar year,
200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

Appendix C. How To Compute Your Firm's Incidence Rate for Safety Management

Incidence rates can be used to show the relative level of injuries and illnesses among different industries, firms, or operations within a single firm. Because a common base and a specific period of time are involved, these rates can help determine both problem areas and progress in preventing work-related injuries and illnesses.

How to compute incidence rates

An incidence rate of occupational injuries and illnesses can be calculated quickly and easily. The formula requires:

(a) *The number of injuries and illnesses.* Count the number of OSHA recordable cases from the Log and Summary of Occupational Injuries and Illnesses (Log) OSHA No. 200 or refer to the TOTALS line for the yearly total on the Log for fatalities, injuries and illnesses with lost workdays, and injuries and illnesses without lost workdays. The number of injuries and illnesses can also be obtained from the OSHA No. 200-S form (appendix D), if your company was surveyed for the calendar year for which incidence rates are desired.

(b) *The number of hours all employees actually worked.* Use payroll or other time records. "Hours worked" should not include any nonwork time, even though paid, such as vacation, sick leave, holidays, etc. (If actual hours worked are not available for employees paid on commission, by salary, or by the mile, etc., hours worked may be estimated on the basis of scheduled hours or 8 hours per workday.)

An incidence rate of injuries and illnesses may be computed from the following formula:

$$\frac{\text{(a) Number of injuries and illnesses} \times 200{,}000}{\text{(b) Employee hours worked}} = \text{Incidence rate}$$

(The 200,000 hours in the formula represents the equivalent of 100 employees working 40 hours per week, 50 weeks per year, and provides the standard base for the incidence rates.)

NOTE: You can use the same formula to compute incidence rates for:

(1) The number of lost workday injury and illness cases (columns 2 + 9 of the OSHA Log or 200-S form);

(2) The number of lost workday injury-only cases (column 2 of the OSHA Log or 200-S form);

(3) The number of lost workday illness-only cases (column 9 of the OSHA Log or 200-S form);

(4) The number of nonfatal injury and illness cases without lost workdays (columns 6 + 13 of the OSHA Log or 200-S form);

(5) The number of nonfatal injury-only cases without lost workdays (column 6 of the OSHA Log or 200-S form);

(6) The number of nonfatal illness-only cases without lost workdays (column 13 of the OSHA Log or 200-S form);

(7) The number of lost workdays for injuries and illnesses (columns 4 + 5 + 11 + 12 of the OSHA Log or the 200-S form);

(8) The number of lost workdays for injuries only (columns 4 + 5 of the OSHA Log or 200-S form);

(9) The number of lost workdays for illnesses only (columns 11 + 12 of the OSHA Log or 200-S form).

Jones Furniture Co. recorded 11 injuries and illnesses (from Log and Summary, OSHA No. 200). The total hours worked by all employees was 130,000 (from payroll or other time records).

$$\frac{11 \times 200{,}000}{130{,}000} = 16.9$$

Therefore, Jones Furniture Co. experienced a rate of 16.9 injuries and illnesses per 100 full-time employees.

To compute an incidence rate for your own firm, enter the data in the appropriate spaces below and complete the formula.

$$\frac{\text{Number of injuries and illnesses in your firm} \times 200{,}000}{\text{Hours worked by all your employees}} = \text{Incidence rate for your firm (Round to the nearest tenth)}$$

The computed incidence rate is per 100 full-time employees and can be used to compare your firm's rate with the national rates for your industry in this bulletin.

NOTE: When comparing illness rates by types of illness, use 20,000,000 hours instead of 200,000 hours to get a rate per 10,000 full-time employees. (See table 7.)

Appendix D. OSHA No. 200-S Report Form and Instructions

Dear Employer:

The Occupational Safety and Health Act of 1970 requires the Secretary of Labor to collect, compile, and analyze statistics on occupational injuries and illnesses. This is accomplished through a joint Federal/State survey program with States that have received Federal grants for collecting and compiling statistics. Establishments are selected for this survey on a sample basis with varying probabilities depending upon size. Certain establishments may be included in each year's sample because of their importance to the statistics for their industry.

You have been selected to participate in the nationwide Occupational Injuries and Illnesses Survey for [illegible]. Under the Occupational Safety and Health Act, your report is mandatory.

The following items are enclosed for your use: (1) Instructions for completing the form; (2) The OSHA No. 200-S form and a copy for your files; and (3) An addressed return envelope. Please complete the OSHA No. 200-S form and return it within three weeks in the envelope provided.

If you have any questions about this survey, contact the survey collection agency indicated on the OSHA No. 200-S form.

Thank you for your cooperation with this important survey.

Sincerely,

GERARD F. SCANNELL
Assistant Secretary for
Occupational Safety and Health

1989 OSHA No. 200-S
Annual Occupational Injuries and Illnesses Survey Covering Calendar Year 1989

U.S. Department of Labor
Bureau of Labor Statistics for the Occupational Safety and Health Administration

The information collected on this form will be used for statistical purposes only by the BLS, OSHA, and the cooperating State Agencies.

THIS REPORT IS MANDATORY UNDER PUBLIC LAW 91-596. FAILURE TO REPORT CAN RESULT IN THE ISSUANCE OF CITATIONS AND ASSESSMENT OF PENALTIES.

O.M.B. No. 1220-0045
Approval Exp. [illegible]

St. Sch No. Ch. Sel.

Burden Statement Located in Instructions

SIC ☐
EDT ☐

Complete this report whether or not there were *recordable occupational injuries or illnesses.*

PLEASE READ THE ENCLOSED INSTRUCTIONS

Complete and return ONLY THIS FORM within 3 weeks

I. ANNUAL AVERAGE EMPLOYMENT IN 1989

Enter the average number of employees who worked during calendar year 1989 in the establishment(s) covered by this report. Include all classes of employees: full-time, part-time, seasonal, temporary, etc. See the instructions for an example of an annual average employment calculation. *(Round to the nearest whole number.)*

☐

II. TOTAL HOURS WORKED IN 1989

Enter the total number of hours actually worked during 1989 by all employees covered by this report. DO NOT include any non-work time even though paid such as vacations, sick leave, etc. If employees worked low hours in 1989 due to layoffs, strikes, fires, etc., explain under Comments (section VII). *(Round to the nearest whole number.)*

☐

III. NATURE OF BUSINESS IN 1989

A. Check the box which best describes the general type of activity performed by the establishment(s) included in this report.

- ☐ Agriculture
- ☐ Forestry
- ☐ Fishing
- ☐ Mining
- ☐ Construction
- ☐ Manufacturing
- ☐ Transportation
- ☐ Communication
- ☐ Public Utilities
- ☐ Wholesale Trade
- ☐ Retail Trade
- ☐ Finance
- ☐ Insurance
- ☐ Real Estate
- ☐ Services
- ☐ Public Administration

B. Enter in order of importance the principal products, lines of trade, services or other activities. For each entry also include the approximate percent of total 1989 annual value of production, sales or receipts.

______ %
______ %
______ %

C. If this report includes any establishment(s) which perform services for other units of your company, indicate the primary type of service or support provided. *(Check as many as apply.)*

1. ☐ Central administration
2. ☐ Research, development and testing
3. ☐ Storage (warehouse)
4. ☐ Other (specify)

______

IV. MONTH OF OSHA INSPECTION

If the establishment(s) covered by this report had either a Federal or State OSHA compliance inspection during calendar year 1989, please enter the name of the month in which the *first* inspection occurred.

______

(Leave this box blank.) ☐

V. RECORDABLE INJURIES AND ILLNESSES

Did the establishment(s) have any recordable injuries or illnesses during calendar year 1989?

1. ☐ No (Please complete section VII.)
2. ☐ Yes (Please complete sections VI and VII.)

SEE REVERSE →

REPORT LOCATION AND IDENTIFICATION

Complete this report for the establishment(s) covered by the description below.

(Please indicate any address changes below)

RETURN REPORT TO:

For Information Call:

OSHA No. 200-S (Revised December 1989)

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VI. OCCUPATIONAL INJURY AND ILLNESS SUMMARY (Covering Calendar Year [illegible])

- ● Complete this section by copying totals from the annual summary of your [illegible] OSHA No. 200
- ● Remember to reverse the carbon insert before completing this side
- ● Leave section VI blank if there were no OSHA recordable injuries or illnesses during [illegible]
- ● Note: First aid for injuries even when administered by a doctor or nurse is not recordable.
- ● Please check your figures to be certain that the sum of entries in columns (7a) + (7b) + (7c) + (7d) + (7e) + (7f) + (7g) = the sum of entries in columns (8) + (9) + (13)
- ● If you listed fatalities in columns (1) and/or (8), please give a brief description of the object or event which caused each fatality in the "Comments" section.

INJURY RELATED FATAL- ITIES** (DEATHS)	INJURIES WITH LOST WORKDAYS				INJURIES WITHOUT LOST WORK- DAYS*
	Injury cases with days away from work and/or restricted workdays	Injury cases with days away from work	Total days away from work	Total days of restricted activity	
Number of DEATHS in col. 1 of the log (OSHA No. 200) (1)	Number of CHECKS in col. 2 of the log (OSHA No. 200) (2)	Number of CHECKS in col. 3 of the log (OSHA No. 200) (3)	Sum of the DAYS in col. 4 of the log (OSHA No. 200) (4)	Sum of the DAYS in col. 5 of the log (OSHA No. 200) (5)	Number of CHECKS in col. 6 of the log (OSHA No. 200) (6)
DEATHS					

TYPE OF ILLNESS Enter the number of checks from the appropriate columns of the log (OSHA No. 200)							ILLNESS RELATED FATAL- ITIES** (DEATHS)	ILLNESSES WITH LOST WORKDAYS				ILLNESSES WITHOUT LOST WORK- DAYS*
Occupational skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning (systemic effects of toxic materials)	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses		Illness cases with days away from work and/or restricted workdays	Illness cases with days away from work	Total days away from work	Total days of restricted activity	
(7)							Number of DEATHS in col. 8 of the log (OSHA No. 200) (8)	Number of CHECKS in col. 9 of the log (OSHA No. 200) (9)	Number of CHECKS in col. 10 of the log (OSHA No. 200) (10)	Sum of the DAYS in col. 11 of the log (OSHA No. 200) (11)	Sum of the DAYS in col. 12 of the log (OSHA No. 200) (12)	Number of CHECKS in col. 13 of the log (OSHA No. 200) (13)
(a)	(b)	(c)	(d)	(e)	(f)	(g)						
							DEATHS					

VII. REPORT PREPARED BY (Please type or print)

NAME ______________________________

TITLE ______________________________

SIGNATURE ______________________________

AREA CODE ____________ PHONE ____________________

DATE ______________________________

COMMENTS ______________________________

SURVEY REPORTING REGULATIONS

Title 29, Part 1904.20-22 of the Code of Federal Regulations requires that: each employer shall return the completed survey form, OSHA No. 200-S, within 3 weeks of receipt in accordance with the instructions shown below.

We estimate that it will take an average of 10-30 minutes to complete this form, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this information. If you have any comments regarding these estimates or any other aspect of this survey, send them to the Bureau of Labor Statistics, Division of Management Systems (1220-0045), 441 G St. NW, Washington, DC 20212, and to the Office of Management and Budget, Paperwork Reduction Project (1220-0045), Washington, DC 20503.

INSTRUCTIONS FOR COMPLETING THE OSHA NO. 200-S FORM 1989 OCCUPATIONAL INJURIES AND ILLNESSES SURVEY

(Covering Calendar Year 1989)

Change of Ownership—When there has been a change of ownership during the report period, only the records of the current owner are to be entered in the report. Explain fully under Comments (Section VII), and include the date of the ownership change and the time period this report covers.

Partial-Year Reporting—For any establishment(s) which was not in existence for the entire report year, the report should cover the portion of the period during which the establishment(s) was in existence. Explain fully under Comments (Section VII), including the time period this report covers.

ESTABLISHMENTS INCLUDED IN THE REPORT

This report should include only those establishments located in, or identified by, the Report Location and Identification designation which appears next to your mailing address. This designation may be a geographical area, usually a county or city, or it could be a brief description of your operation within a geographical area. If you have any questions concerning the coverage of this report, please contact the agency identified on the OSHA No. 200-S report form.

DEFINITION OF ESTABLISHMENT

An ESTABLISHMENT is defined as a single physical location where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, restaurant, movie theatre, farm, ranch, bank, sales office, warehouse, or central administrative office.)

For firms engaged in activities such as construction, transportation, communication, or electric, gas and sanitary services, which may be physically dispersed, reports should cover the *place* to which employees normally report each day.

Reports for personnel who do not primarily report or work at a single establishment, such as traveling salespersons, technicians, engineers, etc., should cover the location from which they are paid or the base from which personnel operate to carry out their activities.

SECTION I. ANNUAL AVERAGE EMPLOYMENT IN 1989

Enter in Section I the average (not the total) number of full and part-time employees who worked during calendar year 1989 in the establishment(s) included in this report. If more than one establishment is included in this report, add together the annual average employment for each establishment and enter the sum. Include all classes of employees—seasonal, temporary, administrative, supervisory, clerical, professional, technical, sales, delivery, installation, construction and service personnel, as well as operators and related workers.

Annual Average employment should be computed by summing the employment from all pay periods during 1989 and then dividing that sum by the total number of such pay periods throughout the entire year, including periods with no employment. For example, if you had the following monthly employment—Jan.-10; Feb.-10; Mar.-10; Apr.-5; May-5; June-5; July-5; Aug.-0; Sept.-0; Oct.-0; Nov.-5; Dec.-5—you would sum the number of employees for each monthly pay period (in this case, 60) and then divide that total by 12 (the number of pay periods during the year) to derive an annual average employment of 5.

SECTION II. TOTAL HOURS WORKED IN 1989

Enter in Section II the total number of hours actually worked by all classes of employees during 1989. Be sure to include only time on duty. DO NOT include any non-work time even though paid, such as vacations, sick leave, holidays, etc. The hours worked figure should be obtained from payroll or other time records wherever possible; if hours worked are not maintained seperately from hours paid, please enter your best estimate. If actual hours worked are not available for employees paid on commission, salary, by the mile, etc., hours worked may be estimated on the basis of scheduled hours or 8 hours per workday.

For example, if a group of 10 salaried employees worked an average of 8 hours per day, 5 days a week, for 50 weeks of the report period, the total hours worked for this group would be 10 x 8 x 5 x 50 = 20,000 hours for the report period.

SECTION III. NATURE OF BUSINESS IN 1989

In order to verify the nature of business code, we must have information about the specific economic activity carried on by the establishment(s) included in your report during calendar year 1989.

Complete Parts A, B and C as indicated in Section III on the OSHA No. 200-S form. Complete Part C only if supporting services are provided to other establishments of your company. Leave Part C blank if a) supporting services are not the primary function of any establishment(s) included in this report or b) supporting services are provided but only on a contract or fee basis for the general public or for other business firms. **(Instructions continued on page 2.)**

NOTE: If more than one establishment is included, information in Section III should reflect the combined activities of all such establishments. One code will be assigned which best indicates the nature of business of the group of establishments as a whole.

SECTION IV. MONTH OF OSHA INSPECTION

Enter the name of the first month in 1989 during which your establishment(s) had an OSHA compliance inspection. Include inspections under the Federal or State equivalents of the Occupational Safety and Health Act by Federal or State inspectors and other inspections which may result in penalties for violations of safety and health standards. Do not include inspections limited to elevators, boilers, fire safety or those which are consultative in nature.

SECTION V. RECORDABLE INJURIES AND ILLNESSES

Check the appropriate box. If you checked "Yes," complete Sections VI and VII on the back of the form. If you checked "No," complete only Section VII.

SECTION VI. OCCUPATIONAL INJURY AND ILLNESS SUMMARY

This section can be completed easily by copying the totals from the annual summary of your 1989 OSHA No. 200 form (Log and Summary of Occupational Injuries and Illnesses). Please note that if this report covers more than one establishment, the final totals on the "Log" for each must be added and the sums entered in Section VI.

Leave Section VI **blank** if the employees covered in this report experienced no recordable injuries or illnesses during 1989.

If there were recordable injuries or illnesses during the year, please review your OSHA No. 200 form for each establishment to be included in this report to make sure that all entries are correct and complete before completing Section VI. Each recordable case should be included on the "Log" in only one of the six main categories of injuries or illnesses:

1. INJURY—related deaths (Log column 1)
2. INJURIES with days away from work and/or restricted days (Log column 2)
3. INJURIES without lost workdays (Log column 6)
4. ILLNESS—related deaths (Log column 8)
5. ILLNESSES with days away from work and/or restricted days (Log column 9)
6. ILLNESSES without lost workdays (Log column 13)

[redacted]

Also review each case to ensure that the appropriate entries have been made for the other columns if applicable. For example, if the case is an injury with Lost Workdays, be sure that the check for an injury involving days away from work (Log column 3) is entered if necessary. Also verify that the correct number of days away from work (Log column 4) and/or days of restricted work activity (Log column 5) are recorded. A similar review should be made for a case which is an illness with Lost Workdays (including Log columns 10, 11 and 12). Please remember that if your employees' loss of workdays is still continuing at the time the annual summary for the year is completed, you should estimate the number of future workdays they will lose and add this estimate to the actual workdays already lost. Each partial day away from work, other than the day of the occurrence of the injury or onset of illness, should be entered as one full restricted workday.

Also, for each case which is an illness, make sure that the appropriate column indicating Type of Illness (Log columns 7a-7g) is checked.

After completing your review of the individual case entries on the "Log," please make sure that the "Totals" line has been completed by summarizing Columns 1 through 13 according to the instructions on the back of the "Log" form. Then, copy these "Totals" onto Section VI of the OSHA No. 200-S form. If you entered fatalities in columns (1) and/or (8), please include in the "Comments" section a brief description of the object or event which caused each fatality.

FIRST AID

Finally, please remember that all injuries which, in your judgement, required only First Aid Treatment, even when administered by a doctor or nurse, should not be included in this report. First Aid Treatment is defined as one-time treatment and subsequent observation of minor scratches, cuts, burns, splinters, etc., which do not ordinarily require medical care.

SECTION VII. COMMENTS AND IDENTIFICATION

Please complete all parts including your area code and telephone number. Then return the OSHA No. 200-S form in the pre-addressed envelope. KEEP your file copy.

Appendix E. State Agencies Receiving Federal Funds

The list below provides addresses and phone numbers for State agencies which receive Federal funds for participating in the Annual Survey of Occupational Injuries and Illnesses. State estimates are available from agencies preceded by an asterisk (*).

*Alabama Department of Labor
651 Administrative Bldg.
Montgomery, AL 36130
Phone: 205—242-3460

*Alaska Department of Labor
Research and Analysis Section
P.O. Box 25501
Juneau, AK 99802
Phone: 907—465-4520

*Government of American Samoa
Department of Manpower Resources
Division of Labor
Pago Pago, AS 96799
Phone: 684—633-2154

*Industrial Commission of Arizona
Division of Administration
Research and Statistics Section
P.O. Box 19070
Phoenix, AZ 85005
Phone: 602—542-3739

*Arkansas Workers' Compensation Commission
OSH Research and Statistics Division
625 Marshall Street, Justice Building
Little Rock, AR 72201
Phone: 501—682-2526

*California Department of Industrial Relations
Labor Statistics and Research Division
P.O. Box 603
San Francisco, CA 94101
Phone: 415—737-3030

Colorado Department of Labor and
Employment, Division of Labor
OSHA Statistics
1120 Lincoln St., Suite 1301
Denver, CO 80203
Phone: 303—764-2938

*Connecticut Department of Labor
200 Folly Brook Blvd.
Wethersfield, CT 06109
Phone: 203—566-4380

*Delaware Department of Labor
Division of Industrial Affairs
State Office Building
820 N. French St.
Wilmington, DE 19801
Phone: 302—577-2888

*Florida Department of Labor and
Employment Security
Division of Safety
Building E, Suite 50
2002 Old St. Augustine Road
Tallahassee, FL 32399-0663
Phone: 904—488-3044

*Guam Department of Labor
Bureau of Labor Statistics
Occupational Safety and Health Statistics
P.O. Box 9970
Tamuning, GU 96911
Phone: 671—646-9241

*State of Hawaii
Department of Labor and Industrial
Relations, Research and Statistics
Office - OSHA
P.O. Box 3680
Honolulu, HI 96811
Phone: 808—548-6398

*Indiana Department of Labor
Research and Statistics Division
State Office Bldg. - Rm. 1013
100 N. Senate Ave.
Indianapolis, IN 46204
Phone: 317—232-2681

*Iowa Department of Employment Services
Division of Labor - OSH Survey
1000 East Grand Ave.
Des Moines, IA 50319
Phone: 515—281-5151

*Kansas Department of Health and
Environment
Office of Communication Services
Research and Analysis
Building 740, Forbes Field
Topeka, KS 66620
Phone: 913—296-5642

*Kentucky Labor Cabinet
Division of Education and Training
Statistical Services—Survey Section
1049 U.S. 127 South
Frankfort, KY 40601
Phone: 502—564-3100

*Louisiana Department of Employment
and Training
Research and Statistics Unit—OSHA
P.O. Box 94094-9094
Baton Rouge, LA 70804
Phone: 504—342-3126

*Maine Department of Labor
Bureau of Labor Standards
State House #54
Augusta, ME 04333
Phone: 207—289-6444

*Maryland Department of Licensing and
Regulation
Division of Labor and Industry
501 St. Paul Pl.
Baltimore, MD 21202-2272
Phone: 301—333-4202,
Toll Free in Maryland, 1-800—492-6226, Ext. 4202

Commonwealth of Massachusetts
Department of Labor and Industries
Saltonstall State Office Building
OSHA Survey
100 Cambridge St., 11th Fl., Room 1101
Boston, MA 02202
Phone: 617—727-3593

*Michigan Department of Labor
MIOSHA Information Division
7150 Harris Dr., Secondary Complex
P.O. Box 30015
Lansing, MI 48909
Phone: 517—322-1848

*Minnesota Department of Labor
and Industry IMSD
443 Lafayette Rd., 3rd Fl.
St. Paul, MN 55155-4305
Phone: 612—296-9735

*Mississippi State Department of Health
Health Surveys/OSH Survey
Post Office Box 1700
Jackson, MS 39215-1700
Phone: 601—960-7971

*Missouri Department of Labor and
Industrial Relations
Division of Workers' Compensation
Occupational Safety and Health
P.O. Box 58
Jefferson City, MO 65102
Phone: 314—751-4231

*Montana Dept. of Labor & Industry
Research & Analysis Section
P.O. Box 1728
Helena, MT 59624
Phone: 406—444-2430

*Nebraska Workers' Compensation Court
P.O. Box 98908
Lincoln, NE 68509-8908
Phone: 402—471-3546

*Nevada Department of Industrial Relations
Division of Occupational Safety and Health
1370 South Curry St.
Carson City, NV 89710
Phone: 702—687-5240

New Jersey Department of Labor
Program Analysis and Evaluation, CN 057
Trenton, NJ 08625-0057
Phone: 609—292-8998

*New Mexico Health and Environment
Department
Occupational Health and Safety
Environmental Improvement Division
1190 St. Francis Drive, Room N2200
Santa Fe, NM 87503
Phone: 505—827-0373

New York State Department of Labor[2]
Division of Research and Statistics
1 Main St., Rm. 907
Brooklyn, NY 11201
Phone: 718—797-7701

*North Carolina Department of Labor
Research and Statistics Division
4 West Edenton Street
Raleigh, NC 27601
Phone: 919—733-4940

*North Dakota Workers' Compensation Bureau
D/P Statistics Department
4000 N. State Street
Bismarck, ND 58501
Phone: 701—224-3890

Ohio Department of Industrial Relations
OSH Survey Office
P.O. Box 12355
Columbus, OH 43212-0355
Phone: 614—644-2829

*Oklahoma Department of Labor
Information Services Division
4001 N. Lincoln Blvd., Room 318
Oklahoma City, OK 73105
Phone: 405—235-1447

*Oregon Department of Insurance and Finance
Information and Management Division
Research and Statistics Section
21 Labor and Industries Bldg.
Salem, OR 97310
Phone: 503—378-8254

Pennsylvania Department of Labor and
Industry
R & S Bureau—OSHA, Room 1200
7th and Forster Sts.
Harrisburg, PA 17121
Phone: 717—787-1918

*Puerto Rico Department of Labor
and Human Resources
Bureau of Labor Statistics
505 Munoz Rivera Ave., 17th Floor
Hato Rey, PR 00918
Phone: 809—754-5737 or 5343

*Rhode Island Department of Labor–
OSH Survey
Division of Occupational Safety
220 Elmwood Ave.
Providence, RI 02907
Phone: 401—457-1853

*South Carolina Department of Labor
Technical Support
3600 Forest Drive
P.O. Box 11329
Columbia, SC 29211
Phone: 803—734-9652

*Tennessee Department of Labor
Research and Statistics
501 Union Bldg., Suite 300
Nashville, TN 37243-0660
Phone: 615—741-1748

Texas Workers' Compensation Commission
Workers' Health and Safety Division
200 E. Riverside Dr., Room 252N
Austin, TX 78704-1287
Phone: 512—440-3861

*Utah Industrial Commission
UOSH Statistics
P.O. Box 510870
Salt Lake City, UT 84151-0870
Phone: 801—530-6823

*Vermont Department of Labor
and Industry
VT OSHA
State Office Building
120 State Street
Montpelier, VT 05602
Phone: 802—828-2286

*Virgin Islands Department of Labor
Bureau of Labor Statistics
P.O. Box 3159
St. Thomas, VI 00801
Phone: 809—776-3700, ext. 101

*Virginia Department of Labor and
Industry
VOSH Research and Analysis
P.O. Box 12064
Richmond, VA 23241
Phone: 804—786-5490 or 1035

*State of Washington
Department of Labor and Industries
Division of Industrial Safety and Health
805 Plum Street, S.E.
Building 4, 3rd Floor
Olympia, WA 98504
Phone: 206—753-1895

*West Virginia Department of Labor
OSH Project Director
Bldg. 3, Rm. 319
1800 Washington St. East
Charleston, WV 25305
Phone: 304—348-7890

Wisconsin Department of Industry,
Labor, and Human Relations
Workers' Compensation Division
Research Section
201 E. Washington Ave.
P.O. Box 7901
Madison, WI 53707-7901
Phone: 608—266-7850

*Wyoming Department of Labor and
Statistics
Herschler Bldg., 2 East
Cheyenne, WY 82002
Phone: 307—777-6371

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[1] State estimates are available for the public sector only.

Work Injury Reports

The BLS Work Injury Report program obtains additional information on specific types of injuries through surveys of injured workers. Listed below are the studies released to date.

The following are available for purchase from the U.S. Department of Commerce, National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Phone: (703) 487-4650. Cost, $9.95 for paper copy, $5.95 for fiche. Add $3.00 for handling fee.

Survey of Ladder Accidents Resulting in Injuries
NTIS Accession No. PB83 207985 (1978)

Survey of Welding and Cutting Accidents Resulting in Injuries
NTIS Accession No. PB83 208017 (1978)

Survey of Scaffold Accidents Resulting in Injuries
NTIS Accession No. PB83 208009 (1978)

Survey of Power Saw Accidents Resulting in Injuries
NTIS Accession No. PB83 207993 (1978)

Accidents Involving Eye Injuries
NTIS Accession No. PB83 182535 (1980)

Accidents Involving Face Injuries
NTIS Accession No. PB83 183335 (1980)

Accidents Involving Head Injuries
NTIS Accession No. PB83 183343 (1980)

Accidents Involving Foot Injuries
NTIS Accession No. PB83 182527 (1981)

Injuries Related to Servicing Equipment
NTIS Accession No. PB83 182543 (1981)

Back Injuries Associated With Lifting
NTIS Accession No. PB83 183319(1982)

Work-Related Hand Injuries and Upper Extremity Amputations
NTIS Accession No. PB83 183319(1982)

The following are available from the BLS Publications Sales Office, P.O. Box 2145, Chicago, IL 60690. Phone: (312) 353-1880.

Injuries Resulting from Falls From Elevations
Bulletin 2195 (1984), $1.75.

Injuries in the Logging Industry
Bulletin 2203 (1984), $1.75.

Injuries Resulting From Falls on Stairs
Bulletin 2214 (1984), $1.75.

Injuries to Construction Laborers
Bulletin 2252 (1986), $1.75

Injuries to Warehouse Workers
Bulletin 2257 (1986), $1.75

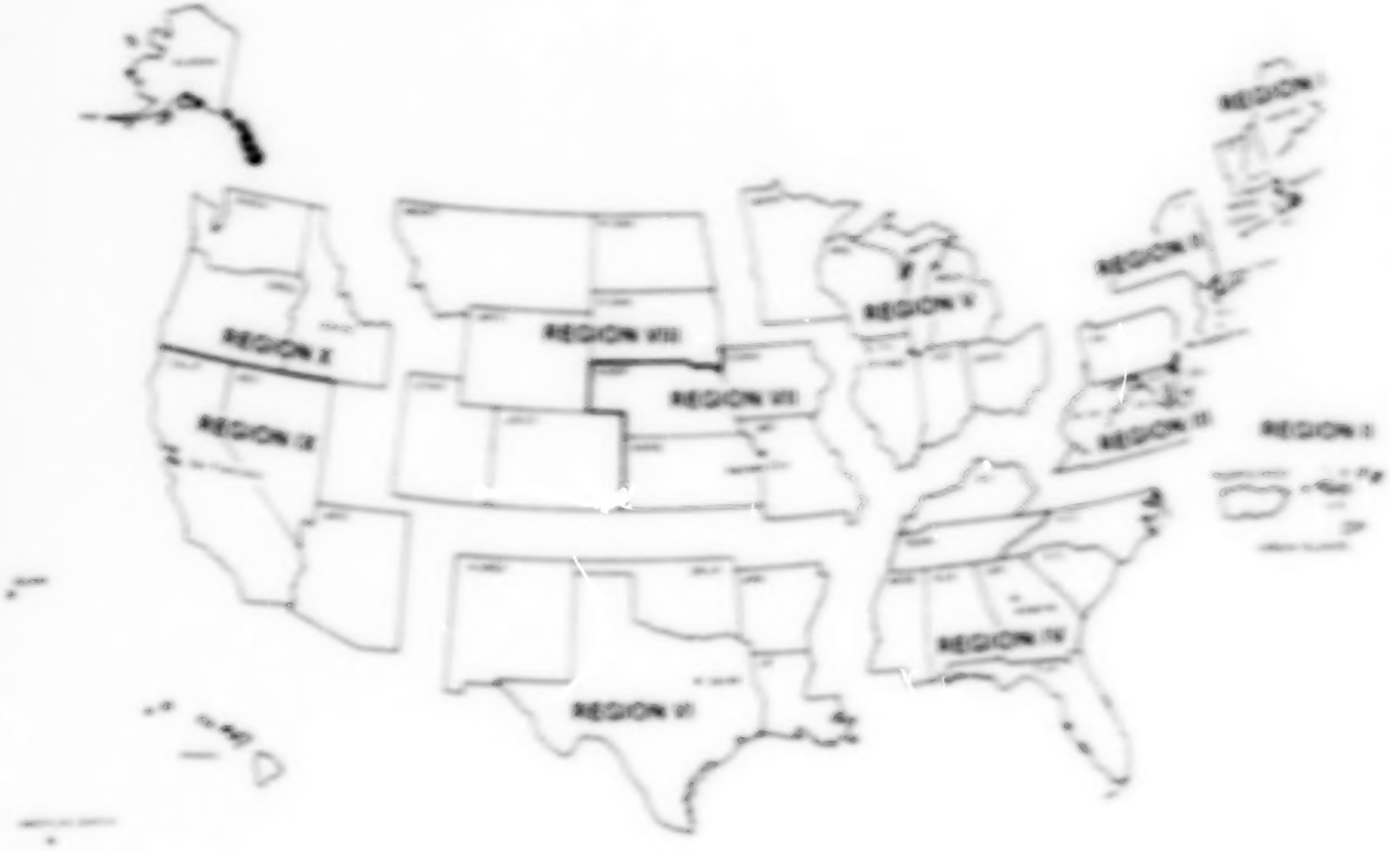
Injuries Involving Longshore Operations
Bulletin 2326 (1989), $1.75.

Chemical Burn Injuries
Bulletin 2353 (1989), $1.75.

Heat Burn Injuries
Bulletin 2358 (1990), $1.75.

* U.S. G.P.O.:1991-282-145-45491

Bureau of Labor Statistics
Regional Offices



Region I
1 Congress Street, 10th Floor
Boston, MA 02114
Phone: (617) 565-2327

Region II
Room 808
201 Varick Street
New York, NY 10014
Phone: (212) 337-2400

Region III
3535 Market Street
P.O. Box 13309
Philadelphia, PA 19101
Phone: (215) 596-1154

Region IV
1371 Peachtree Street, N.E.
Atlanta, GA 30367
Phone: (404) 347-4416

Region V
9th Floor
Federal Office Building
230 S. Dearborn Street
Chicago, IL 60604
Phone: (312) 353-1880

Region VI
Federal Building
525 Griffin Street, Room 221
Dallas, TX 75202
Phone: (214) 767-6970

Regions VII and VIII
911 Walnut Street
Kansas City, MO 64106
Phone: (816) 426-2481

Regions IX and X
71 Stevenson Street
P.O. Box 193766
San Francisco, CA 94119
Phone: (415) 744-6600

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Washington, DC 20212

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